

MEMORANDUM.

THE principal Municipalities in Bengal returned, during the week ending 3rd March 1888, the birth and death-rates of 19·3 and 21·7 per 1,000 of population, respectively, as opposed to 21·3 and 23·4 per 1,000 in the preceding week ending 25th February, indicating a retrogression in the registration of both births and deaths.

2. These events were returned in the highest proportions by the following Municipalities:—

<i>Births.</i>			<i>Deaths.</i>		
		Ratio per mille.			Ratio per mille.
Beaulah	...	57·8	Suburbs of Calcutta	...	38·7
Comillah	...	42·3	Utterpara	...	37·8
Bhagulpore	...	32·6	Bali	...	31·6
Durbhanga	...	32·3	Comillah	...	30·8
Monghyr	...	30·7	Bardwan	...	30·5
Serampore	...	29·4	Gya	...	30·1
Narainganj	...	49·7	Puri	...	29·4

3. Referring to the specific diseases, there was a sensible abatement in the mortality from the maladies returned under the head of "Other Causes," while the fatal results from other diseases exhibited only fractional differences:—

						Ratio per mille during the weeks ending—	
						3rd March 1888.	25th Feb. 1888.
Cholera	...	...	...	...	...	3·6	3·4
Small-pox	...	...	...	...	...	1	·03
Fever	...	...	...	...	...	8·7	9·1
Bowel-complaints	...	...	...	...	...	2·9	2·8
Injury	...	...	...	...	...	2	·5
Other causes	...	...	...	...	...	6·2	7·5

4. The following Municipalities returned conspicuously high mortality from cholera and fever, and no Municipality exhibited any noticeably high suffering from the other diseases mentioned in the foregoing table, excepting Suburbs of Calcutta, where 10·8 per 1,000 of population died from the unspecified diseases coming under the head of "Other Causes":—

<i>Cholera.</i>			<i>Fever.</i>		
		Ratio per mille.			Ratio per mille.
Narainganj	...	41·4	Purneah	...	24·3
Suburbs of Calcutta	...	9·5	Comillah	...	23·1
Howrah	...	7·4			
Hughli	...	5·4			
Gya	...	4·1			

5. The death-rates according to *Sex*, *Class* and *Age* stood as shown below—

<i>According to Sex.</i>			<i>According to Class.</i>			<i>According to Age.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	22·6	Christians	...	17·4	Under 1 year	...	138·9
Females	...	20·6	Hindus	...	22·7	1 and under 5 years	...	25·6
Ratio of male deaths to every 100 female deaths	124		Mahomedans	...	19·5	5 " 10 "	...	11·9
						10 " 15 "	...	13·6
						15 " 20 "	...	22·5
						20 " 30 "	...	14·2
						30 " 40 "	...	13·4
						40 " 50 "	...	16·9
						50 " 60 "	...	30·6
						60 years and upwards	...	46·5

K. P. GUPTA, M.B., F.R.C.S., *Surgeon-Major*,

The 19th March 1888.

Offg. Sanitary Commissioner for Bengal.

NAMES OF MUNICIPAL PALATIES.	POPULATION.			BIRTHS.										DISEASE.										SEX.		
	Males.	Females.	Total.	NUMBER OF —		RATIO PER 1,000 OF POPULATION PER ANNUM.	DEATHS FROM —					RATIO PER 1,000 OF POPULATION PER ANNUM.					Males.	Females.	RATIO PER 1,000 OF POPULATION PER ANNUM.							
				Males.	Females.		Small-pox.	Typhoid.	Cholera.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Small-pox.	Typhoid.	Cholera.				Bowel-complaints.	Injury.	Other diseases.	All causes.			
																								Ratio of male deaths to every 100 female deaths.		
Burdwan	18,063	16,017	34,080	7	5	12	2.07	7.6	18.3	149	1	13	3	1	2	1.5	3.0	30.5	16.8	11	9	31.7	20.2	122		
Midnapore	16,927	16,633	33,560	10	8	18	15.5	1.4	27.9	125	2	5	2	...	3	4.5	18.5	12.4	7	5	21.5	15.0	140			
Hughli and Chinsurah	10,179	10,559	20,738	11	11	22	12.1	14.9	28.0	81	4	7	...	...	1	1.3	16.1	28.2	3	9	8.1	21.0	33	
Secunderabad	13,539	12,937	26,476	11	4	15	21.6	7.9	23.4	273	2	4	5	...	2	3.9	25.3	37.3	6	7	23.0	28.1	85			
Utterpara	3,045	2,454	5,510	...	1	1	...	9.1	9.4	No male births.	1	...	...	...	3	2.3	37.8	9.4	3	1	51.2	21.1	309	
Howrah	23,123	37,660	60,783	14	12	26	8.9	6.8	14.8	1.5	13	5	4	...	4	2.3	16.6	21.2	13	16	12.7	22.1	81			
Bell	7,836	6,979	14,815	...	2	4	7.0	7.0	14.0	100	1	2	3	...	3	5.5	...	17.5	5	4	31.2	23.8	125			
Suburbs of Calcutta	17,295	104,234	251,439	48	40	88	9.9	8.3	18.2	120	40	29	23	2	52	18.7	9.5	...	420	114	73	49.3	39.1	155		
Kalnagar	13,253	14,214	27,467	3	7	10	5.7	13.2	18.9	42	...	4	...	...	...	...	...	7.6	...	2	2	7.8	7.3	100
Ranaghat	4,038	4,655	8,693	...	1	1	...	6.0	6.0	No male births.	...	2	...	...	...	...	...	12.0	...	2	...	25.8	...	No female deaths.
Santipore	13,768	15,979	29,747	1	2	3	1.7	3.5	5.2	50	...	4	1	...	1	6	...	7.0	1	5	3.8	16.3	20			
Jessore	4,830	3,655	8,485	1	1	2	6.1	6.1	12.2	100	...	2	...	...	...	...	...	12.2	...	1	1	16.8	14.2	159
Rampore Beaulah	10,766	9,025	19,791	13	9	22	31.2	23.5	47.8	114	...	2	1	...	...	...	...	5.2	...	1	2	1.8	11.5	50
Darjiling	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	12,752	37,879	50,631	13	7	20	8.4	4.5	13.0	185	...	4	1	1	12	1.8	...	2.6	...	18	3	15.8	7.0	250		
Narainganj	7,665	4,556	12,221	5	1	6	20.7	4.1	24.8	200	10	1	12	4.1	...	4.1	...	5	7	34.2	33.4	71	
Chittagong	13,340	8,740	22,080	5	6	11	11.7	14.1	25.8	83	1	4	8	2.3	...	2.3	...	5	3	10.5	17.7	101	
Cumilla	8,153	6,363	14,516	3	8	11	11.5	50.8	42.3	37	...	6	1	...	1	8	...	2.1	...	3	2	38.3	19.4	330		
Patna City	78,703	81,475	160,178	21	25	46	6.8	8.1	14.9	84	1	1	3	...	15	4.8	...	4.9	15.6	32.4	16	21	16.2	200		
Gya	88,290	57,521	145,811	13	11	24	10.9	7.5	18.4	115	6	2	5	...	14	4.4	...	5.3	50.1	31.8	21	24	28.5	31.6	91	
Arrah	20,000	22,565	42,565	7	6	13	8.4	6.0	14.4	119	...	9	...	...	6	15	...	10.8	...	31	21	28.5	31.6	91
Monfepore	26,081	10,625	36,706	3	6	9	7.6	7.1	10.9	50	...	3	2	8	...	7.1	17.2	10.8	6	9	14.9	2.8	66	
Durbhanga	32,774	32,232	64,996	22	19	41	17.6	11.7	32.3	115	...	11	4	...	8	25	...	6.1	9.7	13.2	5	3	11.2	7.0	166	
Chupra	26,014	27,595	53,609	2	4	6	1.9	3.9	5.8	50	2	2	...	6.5	18.1	21.4	19	11	13.1	2.9	75	
Bagulpore	26,540	27,813	54,353	21	17	38	12.9	15.5	32.5	140	...	14	2	...	9	25	...	8.1	22.6	19.9	16	9	28.1	16.8	177	
Monghyr	28,151	29,896	58,047	19	15	34	17.2	13.5	30.7	152	...	6	3	...	5	13	...	1.2	11.8	15.4	5	8	9.2	16.2	63	
Purneah	8,403	6,553	14,956	1	2	3	3.3	6.3	9.6	50	...	7	21.3	34.6	6	1	36.9	7.9	600	
Puri	13,247	11,637	24,884	6	2	8	12.6	4.2	16.8	900	3	...	5	2	4	14	6.3	...	16.9	4	10	15.7	45.1	49		
TOTAL	704,800	619,091	1,323,891	303	229	432	40.3	9.0	19.3	114	91	3	222	73	5	137	551	3.6	21.7	23.4	396	245	22.6	20.6	124	

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remains as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratio under which have been taken, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

* A special census of the Europeans in the Darjiling Municipality was recently taken, as the census of this section of the community, taken in February 1931, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives remaining as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorised form of age classification.

		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100		101		102		103		104		105		106		107		108		109		110		111		112		113		114		115		116		117		118		119		120		121		122		123		124		125		126		127		128		129		130		131		132		133		134		135		136		137		138		139		140		141		142		143		144		145		146		147		148		149		150		151		152		153		154		155		156		157		158		159		160		161		162		163		164		165		166		167		168		169		170		171		172		173		174		175		176		177		178		179		180		181		182		183		184		185		186		187		188		189		190		191		192		193		194		195		196		197		198		199		200		201		202		203		204		205		206		207		208		209		210		211		212		213		214		215		216		217		218		219		220		221		222		223		224		225		226		227		228		229		230		231		232		233		234		235		236		237		238		239		240		241		242		243		244		245		246		247		248		249		250		251		252		253		254		255		256		257		258		259		260		261		262		263		264		265		266		267		268		269		270		271		272		273		274		275		276		277		278		279		280		281		282		283		284		285		286		287		288		289		290		291		292		293		294		295		296		297		298		299		300		301		302		303		304		305		306		307		308		309		310		311		312		313		314		315		316		317		318		319		320		321		322		323		324		325		326		327		328		329		330		331		332		333		334		335		336		337		338		339		340		341		342		343		344		345		346		347		348		349		350		351		352		353		354		355		356		357		358		359		360		361		362		363		364		365		366		367		368		369		370		371		372		373		374		375		376		377		378		379		380		381		382		383		384		385		386		387		388		389		390		391		392		393		394		395		396		397		398		399		400		401		402		403		404		405		406		407		408		409		410		411		412		413		414		415		416		417		418		419		420		421		422		423		424		425		426		427		428		429		430		431		432		433		434		435		436		437		438		439		440		441		442		443		444		445		446		447		448		449		450		451		452		453		454		455		456		457		458		459		460		461		462		463		464		465		466		467		468		469		470		471		472		473		474		475		476		477		478		479		480		481		482		483		484		485		486		487		488		489		490		491		492		493		494		495		496		497		498		499		500		501		502		503		504		505		506		507		508		509		510		511		512		513		514		515		516		517		518		519		520		521		522		523		524		525		526		527		528		529		530		531		532		533		534		535		536		537		538		539		540		541		542		543		544		545		546		547		548		549		550		551		552		553		554		555		556		557		558		559		560		561		562		563		564		565		566		567		568		569		570		571		572		573		574		575		576		577		578		579		580		581		582		583		584		585		586		587		588		589		590		591		592		593		594		595		596		597		598		599		600		601		602		603		604		605		606		607		608		609		610		611		612		613		614		615		616		617		618		619		620		621		622		623		624		625		626		627		628		629		630		631		632		633		634		635		636		637		638		639		640		641		642		643		644		645		646		647		648		649		650		651		652		653		654		655		656		657		658		659		660		661		662		663		664		665		666		667		668		669		670		671		672		673		674		675		676		677		678		679		680		681		682		683		684		685		686		687		688		689		690		691		692		693		694		695		696		697		698		699		700		701		702		703		704		705		706		707		708		709		710		711		712		713		714		715		716		717		718		719		720		721		722		723		724		725		726		727		728		729		730		731		732		733		734		735		736		737		738		739		740		741		742		743		744		745		746		747		748		749		750		751		752		753		754		755		756		757		758		759		760		761		762		763		764		765		766		767		768		769		770		771		772		773		774		775		776		777		778		779		780		781		782		783		784		785		786		787		788		789		790		791		792		793		794		795		796		797		798		799		800		801		802		803		804		805		806		807		808		809		810		811		812		813		814		815		816		817		818		819		820		821		822		823		824		825		826		827		828		829		830		831		832		833		834		835		836		837		838		839		840		841		842		843		844		845		846		847		848		849		850		851		852		853		854		855		856		857		858		859		860		861		862		863		864		865		866		867		868		869		870		871		872		873		874		875		876		877		878		879		880		881		882		883		884		885		886		887		888		889		890		891		892		893		894		895		896		897		898		899		900		901		902		903		904		905		906		907		908		909		910		911		912		913		914		915		916		917		918		919		920		921		922		923		924		925		926		927		928		929		930		931		932		933		934		935		936		937		938		939		940		941		942		943		944		945		946		947		948		949		950		951		952		953		954		955		956		957		958		959		960		961		962		963		964		965		966		967		968		969		970		971		972		973		974		975		976		977		978		979		980		981		982		983		984		985		986		987		988		989		990		991		992		993		994		995		996		997		998		999		1000		1001		1002		1003		1004		1005		1006		1007		1008		1009		1010		1011		1012		1013		1014		1015		1016		1017		1018		1019		1020		1021		1022		1023		1024		1025		1026		1027		1028		1029		1030		1031		1032		1033		1034		1035		1036		1037		1038		1039		1040		1041		1042		1043		1044		1045		1046		1047		1048		1049		1050		1051		1052		1053		1054		1055		1056		1057		1058		1059		1060		1061		1062		1063		1064		1065		1066		1067		1068		1069		1070		1071		1072		1073		1074		1075		1076		1077		1078		1079		1080		1081		1082		1083		1084		1085		1086		1087		1088		1089		1090		1091		1092		1093		1094		1095		1096		1097		1098		1099		1100		1101		1102		1103		1104		1105		1106		1107		1108		1109		1110		1111		1112		1113		1114		1115		1116		1117		1118		1119		1120		1121		1122		1123		1124		1125		1126		1127		1128		1129		1130		1131		1132		11	
--	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	----	--

K. P. GUPTA, M.B.F.R.C.S., Surgeon-Major.

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
163	1. Grain ...	591	905	1 496	97,930	1,496	97,930
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
6	3. Oilseeds ...	.....	82	82	8,910	82	8,910
13	4. Salt ...	100	28	128	13,770	128	13,770
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
137	7. Building materials ...	14	1,608	1,622	5,870	276	2,020
122	8. Miscellaneous ...	550	482	1,032	2,83,750	1,032	2,83,750
4	9. Fuel ...	49	2	51	150	51	150
29 rafts	10. Timber ..	.....	4,914 No.	4,914 No.	8,990	4,914 No.	8,990
19 „	11. Bamboos ...	.....	45,200 „	45,200 „	830	45,200 „	830
445 & 48 rafts	12. Total ...	1,304	{ 3,107 & 50,114 No.	{ 4,411 & 50,114 No.	{ 4,20,200 }	{ 3,065 & 50,114 No.	{ 4,16,350 }
363 & 27 rafts	13. Total of same month last year	1,537 & 12 No.	1,413 & 115,908 No.	2,950 & 115,920 No.	{ 1,82,580 }	{ 2,639 & 115,920 No.	{ 1,81,260 }
		Up.	Down.	Total.			Rs. A.
14. Total number of boats plying cargo No.		185	260	445	Total tollage of month—24+25+26 ...		5,914 5 2
15. Total number of boats plying passenger No.		52	58	110	Total tollage of same month last year ...		4,154 10 5
15½. Total number of empty boats No.		243	214	457	Memorandum of Tollage.		
16. Total registered tonnage, cargo Tons.		2,533	4,986	7,519			Rs. A. P
17. Total registered tonnage, passenger Tons.		1,314	1,273	2,587			
18. Ton-mileage ...		1,13,733	1,60,230	2,73,963	1. Balance not recovered on the 1st of the month ...		8,784 4 1
19. Estimated value of cargo Rs.		1,82,960	2,27,420	4,10,380			
20. Number of passengers ...		1,721	2,202	3,923			
21. Rafts, bamboos No.		.....	45,200	45,200	2. Tollage per month ...		5,914 5 2
22. Do., timber „		.....	4,914	4,914			
23. Estimated value of rafts ...		.....	9,820	9,820	3. Total ...		14,698 9 3
24. Tollage on boats Rs.		2,522-5-2	2,980-12-10	5,503-2-0			
25. Compounded tollage on boats ... Rs.		.....	.....	.....	4. Amount credited in the accounts of the month ...		7,082 14 3
26. Tollage on rafts „		.....	411-3-2	411-3-2			
27. Total tollage on boats per ton-mile ...		.....	.....	0-0-3-9	5. Balance due at the end of the month ...		7,665 11 0
28. Total tollage on rafts per 100 cubic feet ...		.....	.....	0-13-2			

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
132	1. Grain ...	562	.....	562	36,710	562	36,710
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
5	3. Oilseeds ...	13	.....	13	1,480	13	1,480
37	4. Salt ...	.....	150	150	12,510	150	12,510
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
17	7. Building materials ...	124	9	133	1,200	131	1,060
98	8. Miscellaneous ...	175	129	304	13,820	304	13,820
53	9. Fuel ...	499	.....	499	1,400	499	1,400
44 rafts	10. Timber ...	5,148 No.	.....	5,148 No.	10,200	5,148 No.	10,200
6 "	11. Bamboos ...	.....	28,200 No.	28,200 "	450	28,200 "	450
342 & 50 rafts	12. Total ...	{ 1,373 & 5,148 No.	{ 288 & 28,200 No.	{ 1,661 & 33,348 No.	{ 77,770 {	{ 1,659 & 33,348 No.	{ 77,630 {
258 & 21 rafts	13. Total of same month last year ...	499 & 3,738 No.	522	1,021 & 3,738 No.	47,390	695 & 3,738 No.	47,240
		Up.	Down.	Total			Rs. A. P.
14.	Total number of boats plying cargo No.	278	64	342	Total tollage of month— 24 + 25 + 26 ...		1,348 0 0
15.	Total number of boats plying passenger No.	1	4	5	Total tollage of same month last year ...		1,084 3 6
16.	Total registered tonnage, cargo Tons.	2,449	473	2,922	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	5	16	21			
18.	Ton-mileage ...	37,924	8,331	46,255	Rs. A. P.		
19.	Estimated value of cargo Rs.	41,430	25,690	67,120	1. Balance not recovered on the 1st of the month ...		523 8 9
20.	Number of passengers ...	2	11	13	2. Tollage per-month ...		1,348 0 0
21.	Rafts, bamboos No.	.....	28,200	28,200	3. Total ...		1,871 8 9
22.	Do., timbers "	5,148	.....	5,148	4. Amount credited in the accounts of the month ...		1,338 8 6
23.	Estimated value of rafts ...	10,200	450	10,650	5. Balance due at the end of the month ...		533 0 3
24.	Tollage on boats Rs.	645-15-3	245-5-9	891-5-0			
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts "	430-4-0	26-7-0	456-11-0			
27.	Total tollage on boats, per ton-mile ...	.....	.....	0-0-37			
28.	Total tollage on rafts per 100 cubic feet ...	.....	.....	1-5-10			

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
72	1. Grain ...	219	5	224	10,303	224	10,303
1	2. Cotton ...	1	.....	1	300	1	300
5	3. Oilseeds ...	.....	16	16	916	16	916
6	4. Salt ...	.....	39½	39½	5,565	39½	5,565
42	5. Piece-goods ...	.....	61½	61½	17,290	61½	17,290
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
.....	7. Building materials ...	.....	.....	.....	.....	.....	.....
40	8. Miscellaneous ...	1	92½	93½	10,445	91	10,229
.....	9. Fuel ...	.....	.....	.....	.....	.....	.....
23 rafts	10. Timber ...	.....	1,278 No.	1,278 No.	3,834	1,278	3,834
26 „	11. Bamboos ...	.....	27,900 „	27,900 „	837	27,900	837
166 & 49 rafts	12. Total ...	221	214½ & 29,178 No.	435½ & 29,178 No.	49,490	433 & 29,178	49,274
118 & 20 rafts	13. Total of same month last year ..	73	495 & 3,686 No.	568 & 3,686 No.	29,956	231	20,449
		Up.	Down.	Total.			
14.	Total number of boats plying cargo ... No.	74	92	166			
15.	Total number of boats plying passenger ... No.	.....	1	1			
15½.	Total number of empty boats ... No.	73	62	135			
16.	Total registered tonnage, cargo Tons.	442	429	871			
17.	Total registered tonnage, passenger Tons.	.....	3	3	Memorandum of Tollage.		
18.	Ton mileage ...	8,552	7,128	15,680			
19.	Estimated value of cargo Rs.	10,019	34,800	44,819			
20.	Number of passengers ...	68	47	115			
21.	Rafts, bamboos No.	.....	27,900	27,900			
22.	Do., Timber „	.....	1,278	1,278			
23.	Estimated value of rafts ...	.....	4,671	4,671			
24.	Tollage on boats Rs.	95-10-6	87-11-3	183-5-9			
25.	Compounded tollage on boats ... Rs.	.....	.....	.....
26.	Tollage on rafts „	.....	75-1-6	75-1-6			
27.	Total tollage on boats per ton-mile ...	.....	.....	0-0-2-0			
28.	Ditto on rafts per 100 cubic feet	.....	.....	0-4-1			
					Rs. A. P.		
					Total tollage of month— 24+25+26 ...		
					258 7 3		
					Total tollage of same month last year ...		
					264 2 0		
					Rs.		
					1. Balance not recovered on the 1st of the month ...		
						
					2. Tollage per month ...		
					258 7		
					3. Total ...		
					258 7		
					4. Amount credited in the accounts of the month ...		
					255 7		
					5. Balance due at the end of the month ...		
					3 0		

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
39	1. Grain ...	97	.....	97	5,029	97	5,029	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
3	3. Oilseeds ...	.....	12	12	1,386	12	1,386	
5	4. Salt ...	13	4½	17½	2,044	17½	2,044	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
.....	7. Building materials ...	.....	.....	.....	.....	.....	.....
5	8. Miscellaneous ...	.....	21	21	2,893	19½	2,888	
.....	9. Fuel ...	.....	.....	.....	.....	.....	.....
8 rafts	10. Timber ...	.....	92 No.	92 No.	154	92 No.	154	
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....
52 & 8 rafts	12. Total ...	110	{ 37½ & 92 No.	{ 147½ 92 No.	{ 11,506	{ 146 & 92 No.	{ 11,501	
68 & 3 rafts	13. Total of same month last year	33	419	452	6,683	67	5,544	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	43	9	52	Total tollage of month—24 + 25 + 26 ...			66 1 3
15.	Total number of boats plying passenger No.	.....	1	1	Total tollage of same month last year ...			194 7 0
15½.	Total number of empty boats No.	10	39	49				
16.	Total registered tonnage, cargo Tons	220	75	295	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	.....	3	3				Rs. A. P.
18.	Top-mileage ...	147	1,160	1,307	1. Balance not recovered on the 1st of the month ...			.....
19.	Estimated value of cargo Rs.	6,545	4,807	11,352				
20.	Number of passengers ...	63	55	118	2. Tollage per month ...			66 1 3
21.	Rafts, bamboos c. ft.	.....	.....	.....	
22.	Do., Timbers No.	.....	92	92				
23.	Estimated value of rafts ...	.....	154	154	3. Total ...			66 1 3
24.	Tollage on boats Rs.	41-1-3	21-9-0	62-10-3				
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount credited in the accounts of the month ...			66 1 3
26.	Tollage on rafts ..	.....	3-7-0	3-7-0				
27.	Total tollage on boats per ton-mile ...	.....	.....	0-0-9 2				
28.	Total tollage on rafts per 100 cubic feet ...	.....	.....	3-11-0	5. Balance due at the end of the month ...			.....

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,019	1. Grain ...	7,260	371	7,631	3,09,006	7,631	3,09,006	
13	2. Cotton ...	14	67	81	9,432	81	9,432	
72	3. Oilseeds ...	664	664	664	53,564	664	53,564	
8	4. Salt ...	6	1	7	17,850	7	17,850	
6	5. Piece-goods ...	5	29	34	11,170	34	11,170	
19	6. Metal ...	155	14	169	472	133	222	
312	7. Building materials ...	654	270	924	6,14,622	924	6,14,622	
18	8. Miscellaneous ...	49	276	325	2,604	325	2,604	
51 rafts	9. Fuel ...	10,935 c. ft.	598 c. ft.	11,533 c. ft.	5,757	11,533 c. ft.	5,757	
8 "	10. Timber ...	8,150 "	.....	8,150 "	652	8,150 "	652	
1,467 & 59 rafts	11. Bamboos ...	8,143 & 19,085 c. ft.	1,692 & 598 c. ft.	9,835 & 19,683 c. ft.	10,25,129	9,799 & 19,683 c. ft.	10,24,879	
1,386 & 76 rafts	12. Total ...	6,845 & 19,074 c. ft.	2,074 & 916 c. ft.	8,919 & 19,990 c. ft.	5,15,176	8,919 & 19,990 c. ft.	5,15,176	
	13. Total of same month last year							
		Up.	Down.	Total.				
	14. Total number of boats plying cargo No.	1,189	278	1,467	Total tollage of month—24 + 25 + 26 ...		Rs. A 10,713 11	
	15. Total number of boats plying passenger No.	510	564	1,074	Total tollage of same month last year ...		9,898 1	
	15½. Total number of empty boats ... No.	549	921	1,470				
	16. Total registered tonnage, cargo ... Tons	15,972	3,725	19,697	Memorandum of Tollage.			
	17. Total registered tonnage, passenger ... Tons	2,915	2,575	5,490				
	17½. Total registered tonnage, empty ... Tons	2,344	4,127	6,471				
	18. Ton-mileage ...	4,84,094	2,40,013	7,24,137	1. Balance not recovered on the 1st of the month ...		Rs. A. 1 4,437 7 1	
	19. Estimated value of cargo Rs.	8,54,620	1,64,100	10,18,720	2. Tollage per month ...		10,713 11	
	20. Number of passengers ...	5,498	6,504	12,002	3. Total ...		15,151 3	
	21. Rafts, bamboos c. ft.	8,150	.....	8,150				
	22. Do., bullahs "	10,935	598	11,533				
	23. Estimated value of rafts ...	5,022	1,387	6,409				
	24. Tollage on boats Rs.	7,508-3-6	3,630-12-3	10,538-15-9				
	25. Compounded tollage on boats ... Rs.	.....	.....	.....	
	26. Tollage on rafts "	167-7-8	7-4-6	174-12-0	4. Amount paid into treasury during the month ...		11,175 11	
	27. Total tollage on boats per ton-mile Pie	.....	.....	0-0-2-8	5. Balance due at the end of the month ...		2,975 3	
	28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-14-2				

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.	
		Quantity - Tons.			Quantity.	Value.
		Up.	Down.	Total.	Tons.	Rupees.
	1. Grain ...					
	2. Cotton ...					
	3. Oilseeds ...					
	4. Salt ...					
	5. Piece-goods ...					
	6. Metal ...					
	7. Building materials ...					
	8. Miscellaneous ...					
	9. Fuel ...					
	10. Timber ...					
	11. Bamboos ...					
	12. Total ...					
1,249 & 24 raft.	13. Total of same month last year.	2,612 & 1,960 c. ft.	533 & 1,363 c. ft.	3,145 & 3,323 c. ft.	3,145 & 3,323 c. ft.	1,69,878
Canal closed for silt excavation for						
		Up.	Down.	Total.	Rs. A. P.	
14.	Total number of boats plying cargo No.				Total tollage of month— 24 + 25 + 26 ...	
15.	Total number of boats plying passenger No.				Total tollage of same month last year	
16.	Total registered tonnage, cargo ...				2,584 0 9	
17.	Total registered tonnage, passenger ...				Memorandum of Tollage.	
18.	Ton-mileage ...				Rs. A. P.	
19.	Estimated value of cargo Rs.				1. Balance not recovered on the 1st of the month ...	
20.	Number of passengers ...				1,515 13 3	
21.	Rafts, bamboos c. ft.				2. Tollage per month ...	
22.	Do., bullahs ..				.....
23.	Estimated value of rafts ...				3. Total ...	
24.	Tollage on boats Ra.				1,515 13 3	
25.	Compounded tollage on boats ... Ra.				4. Amount paid into treasury during the month ...	
26.	Tollage on rafts ..				1,495 7 0	
27.	Total tollage on boats per ton-mile ...				5. Balance due at the end of the month ...	
28.	Total tollage on rafts per 100 cubic feet ..				20 6 3	

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
	Quantity--Tons.			Value.	Quantity.	Value.	
	Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
.. 1. Grain ...	14	2	16	1,081	16	1,081	
.. 2. Cotton ...	.....	.....	.....	.....	.....	.....
10 3. Oilseeds ...	1	119	111	10,456	111	10,456	
2 4. Salt ...	43	.....	43	2,742	43	2,742	
18 5. Piece-goods ...	151	1	152	35,370	152	35,370	
.... 6. Metal ...	4	3	7	34,530	7	34,530	
98 7. Building materials	155	728	883	7,290	241	1,108	
67 8. Miscellaneous ...	216	340	556	63,508	451	61,396	
1 9. Fuel { boats	.....	9	9	59	9	50	
rafts	.....	47	47	97	47	97	
.. 10. Timber { boats	2	.....	2	195	2	195	
rafts	.....	459	459	2,765	459	2,765	
1 11. Bamboos { boats	4	.....	4	180	4	180	
rafts	3	758	761	25,638	761	25,638	
197 12. Total ...	593	2,457	3,050	1,83,902	2,303	1,75,608	
162 13. Total of same month last year	337	1,556	1,893	1,17,168	1,615	1,16,228	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	61	136	197	Total tollage of month— 24 + 25 + 26 ...	2,245 14 1
15. Total number of boats plying passenger No.	4	7	11		
15½. Total number of empty boats No.	103	20	123	Total tollage of same month last year ...	1,629 6 6
16. Total registered tonnage, cargo Tons	852	2,022	2,874		
17. Total registered tonnage, passenger Tons	108	145	253		
17½. Total registered tonnage, empty boats Tons	453	79	532	Memorandum of Tollage.	
18. Ton-mileage ...	73,904	1,93,708	2,67,612		Rs. A. P.
19. Estimated value of cargo Rs.	54,159	1,01,243	1,55,402	1. Balance not recovered on the 1st of the month ...	324 11 6
20. Number of passengers No.	291	315½	606½	2. Tollage per month ...	2,245 14 1
21. Rafts, bamboos c. ft.	450	1,13,664	1,14,114		
22. Do., bullahs ..	.....	37,897	37,897		
23. Estimated value of rafts Rs.	1,050	27,450	28,500		
24. Tollage on boats ..	581-7-10	929-9-3	1,511-1-1	3. Total ...	2,570 9 7
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0		
26. Tollage on rafts ..	1 6-6	583-6-6	584 13-0	4. Amount credited in the accounts of the month ...	1,750 11
27. Total tollage on boats per ton-mile ...	.....	.....	0-0-1-1		
28. Total tollage on rafts per 100 cubic feet ...	.....	.....	0-6-1	5. Balance due at the end of the month ...	819 14

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
7	1. Grain ...	60	25	85	5,984	85	5,984
.....	2. Cotton ...	1	.....	1	1,464	1	1,464
5	3. Oilseeds ...	1	24	25	1,880	25	1,880
9	4. Salt ...	87	.....	87	8,300	87	8,300
3	5. Piece-goods ...	30	1	31	29,996	31	29,996
8	6. Metal ...	63	1	64	57,187	3	48,687
8	7. Building materials ...	27	31	58	506	14	66
53	8. Miscellaneous ...	40	279	319	16,970	144	16,826
15	9. Fuel ...	152	54	206	1,668	112	1,216
2	10. Timber ...	6	6	12	887	6	462
Rafts {	11. Firewood ...	.....	101	101	330	101	330
	Bullahs ...	.....	1,074	1,074	3,807	1,074	3,807
	Bamboos ...	.....	110	110	1,218	110	1,218
110	12. Total ...	467	1,706	2,173	1,30,197	1,793	1,20,236
142	13. Total of same month last year	430	1,738	2,168	1,04,864	1,966	1,04,548
		Up	Down.	Total.			Rs. A. P.
14. Total number of boats plying cargo No.		41	69	110	Total tollage of month— 24 + 25 + 26 ...		1,331 8 0
15. Total number of boats plying passenger No.		2	3	5			
15½. Total number of empty boats ...		42	15	57	Total tollage of same month last year ...		1,285 3 0
16. Total registered tonnage, cargo ...		586	665	1,251	Memorandum of Tollage.		
17. Total registered tonnage, passenger ...		77	68	145			
17½. Total registered tonnage, empty ...		127	52	179			
18. Ton-mileage ...		35,137	31,392	66,529			Rs. A. P.
19. Estimated value of cargo Rs.		1,95,776	19,066	1,24,842	1. Balance not recovered on the 1st of the month ...		165 9 9
20. Number of passengers ...		1,002	877	1,879	2. Tollage per month ...		1,331 8 0
21. Rafts, bamboos c. ft.		.....	16,498	16,498			
22. Do., bullahs "		.....	80,586	80,586			
22½. Do., firewood "		.....	7,600	7,600			
23. Estimated value of rafts Rs.		.....	5,355	5,355			
24. Tollage on boats "		204-13-9	195-15-6	400-13-3	3. Total ...		1,497 1 9
25. Compounded tollage on boats Rs.		356-0-0	356-0-0	712-0-0	4. Amount credited in the accounts of the month ...		1,300 6 6
26. Tollage on rafts "		.....	218-10-9	218-10-9			
27. Total tollage on boats per ton-mile ...		.....	.....	0-0-3			
28. Total tollage on rafts per 100 cubic feet ...		.....	.....	0-3-4	5. Balance due at the end of the month ...		196 11 3

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
2	1. Grain ...	1	17	18	1,971	18	1,971
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	.....	10	10	842	10	842
.....	4. Salt ...	1	.....	1	168	1	168
.....	5. Piece-goods ...	1	.....	1	2,145	1	2,145
.....	6. Metal ...	2	1	3	1,730	3	1,730
29	7. Building materials ...	1	381	382	14,403	1	128
15	8. Miscellaneous ...	11	183	194	17,613	194	17,613
.....	9. Fuel ...	.....	.....	.....	.....	.....	.....
Rafts {	10. Timber ...	.....	198	198	2,460	198	2,460
	11. Bamboos ...	.....	272	272	4,890	272	4,890
47	12. Total ...	17	1,062	1,079	46,222	698	31,947
110	13. Total of same month last year	45	1,693	1,738	1,02,854	1,153	80,954
		Up.	Down.	Total.			Rs. A. P.
14. Total number of boats plying cargo No.		.....	47	47	Total tollage of month— 24 + 25 + 26 ...		672 14 3
15. Total number of boats plying passenger No.		11	10	21			
15½. Total number of empty boats No.		40	6	46	Total tollage of same month last year ...		905 1 3
16. Total registered tonnage, cargo Tons		17	1,255	1,272			
17. Total registered tonnage, passenger Tons		252	247	499			
17½. Total registered tonnage, empty Tons		161	28	189	Memorandum of Tollage.		
18. Ton-mileage ...		5,963	23,628	29,591			
19. Estimated value of cargo Rs.		5,246	33,626	38,872	Rs. A. P.		
20. Number of passengers ..		598½	592	1,190½	1. Balance not recovered on the 1st of the month ...		31 0 3
21. Rafts, bamboos c. ft.		.....	40,750	40,750			
22. Do., bullahs ..		.....	14,901	14,901	2. Tollage per month ..		673 14 3
23. Estimated value of rafts Rs.		.....	7,350	7,350			
24. Tollage on boats ..		28-13-9	180-7-6	209-5-3	3. Total ...		704 14 6
25. Compounded tollage on boats Rs.		75-0-0	171-0-0	246-0-0			
26. Tollage on rafts ..		.....	218-9-0	218-9-0	4. Amount credited in the accounts of the month ...		692 1 9
27. Total tollage on boats per ton-mile ...		.....	.....	0-0-2-9			
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-6-3	5. Balance due at the end of the month ...		12 12 9

ABSTRACT FOR THE MONTH OF JANUARY 1888, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

CANAL.	TRAFFIC, 1887-88.			TRAFFIC, 1886-87.			REMARKS.
	During the month.		To end of the month.	During the month.		To end of the month.	
<i>Orissa Circle.</i>	Rs. A. P.		Rs. A. P.	Rs. A. P.		Rs. A. P.	
Talunda Canal System ...	1,115 1 9		4,768 10 9	238 4 0		1,738 15 4	
Kendrapara Canal System ...	5,914 5 2		36,081 2 2	4,151 10 5		30,487 8 0	
High Level, Range I ...	1,348 0 0		6,335 9 6	1,084 3 6		5,674 14 6	
Ditto, " II ...	258 7 3		2,924 10 3	264 2 0		2,707 2 6	
Ditto, " III ...	66 1 3		899 14 0	194 7 0		1,664 15 6	
Total Orissa Circle ...	8,701 15 5		51,009 14 8	5,935 10 11		42,273 7 10	
<i>South-Western Circle.</i>							
Midnapore Canal ...	10,713 11 9		1,01,001 8 9	9,898 1 9		91,028 4 9	
Hidgellee Tidal Canal ...	.....		40,046 14 0	2,584 0 9		43,191 2 0	
Total South-Western Circle	10,713 11 9		1,41,048 6 9	12,482 2 6		1,34,219 6 9	
<i>Sone Circle.</i>							
Patna Canal System ...	2,245 14 1		21,549 5 7	1,629 6 6		18,512 11 0	
Arrah ditto ...	1,331 8 0		12,633 7 0	1,285 3 0		15,350 0 4	
Buxar ditto ...	673 14 3		6,225 8 11	905 1 3		6,778 12 7	
Total Sone Circle ...	4,251 4 4		40,408 5 6	3,819 10 9		40,641 7 11	
GRAND TOTAL ...	23,666 15 6		2,32,466 10 11	22,237 8 2		2,17,134 6 6	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1887-88.						TRAFFIC, 1886-87.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	189	491	389 9 9	2,888	4,707	3,784 7 3	167	243	171 10 11	6,948	12,660	7,750 0 2
Total Orissa Circle ...	189	491	389 9 9	2,888	4,707	3,784 7 3	167	243	171 10 11	6,948	12,660	7,750 0 2

TOTAL NAVIGATION RECEIPTS.

CANAL.	EARNINGS, 1887-88.			EARNINGS, 1886-87.			REMARKS.
	During the month.		To end of the month.	During the month.		To end of the month.	
	Rs. A. P.		Rs. A. P.	Rs. A. P.		Rs. A. P.	
Orissa Canals ...	9,091 9 2		54,794 5 11	6,107 5 10		50,023 8 0	
Midnapore Canal ...	10,713 11 9		1,01,001 8 9	9,898 1 9		91,028 4 9	
Hidgellee Tidal Canal ...	.....		40,046 14 0	2,584 0 9		43,191 2 0	
Sone Canals ...	4,251 4 4		40,408 5 6	3,819 10 9		40,641 7 11	
Total ...	24,056 9 3		2,36,251 2 2	22,409 3 1		2,21,884 6 8	

Calcutta,
The 20th March 1888.

A. D. McARTHUR, MAJOR, R.E.,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 17th March 1888, as compared with the corresponding week of the previous year.

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 17TH MARCH 1888.			WEEK ENDING SATURDAY, THE 19TH MARCH 1887.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	1,080	2,30,315	4,350	904	2,40,135	3,965
Jute ...	50	45,200	776	83	19,225	338
Firewood ...	136	67,147	1,043	110	59,775	838
Other articles ...	892	2,35,942	3,453	946	2,71,850	4,271
Total ...	2,158	5,78,604	9,622	1,993	5,90,985	9,412

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 10th March 1888, on 1,513½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	270,816*	3,33,406 10 6*	27,44,293 10	6,09,302 9 0	21,440 14 0	10,24,150 1 0	71,351½	103,073½	174,425½
Or per mile of railway ...	.....	220 4 0	.....	412 2 5	14 2 7	676 9 0	.....	.....	.....
For previous 9 weeks of half-year ...	2,434,264	28,92,983 5 0	2,51,30,923 10	60,74,393 5 3	1,99,908 0 4	91,07,284 10 7	600,408	956,157½	1,556,565½
Total for 10 weeks ...	2,705,080	32,26,389 15 0	2,78,75,216 20	67,48,695 14 3	2,21,348 14 4	1,01,91,454 11 7	671,849½	1,059,231	1,731,080½
COMPARISON.									
Total for corresponding week of previous year ...	248,867	2,71,447 8 8	24,68,808 20	6,22,237 11 1	17,050 2 4	9,10,735 0 1	66,967	113,523	180,490
Per mile of railway corresponding week of previous year ...	.....	179 2 9	.....	410 11 6	11 4 1	601 2 4	.....	.....	.....
Total to corresponding date of previous year ...	2,613,840	29,51,035 2 8	2,63,29,338 10	67,87,035 9 11	1,85,980 8 10	99,24,951 5 5	651,037	1,116,303	1,767,340

* The increase in coaching traffic is partly due to the running of Troop extra trains, and partly to "Baroonen" bathing festival.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
1,515	9,10,735	601	1,515½	10,24,150	677	1,515	4,42,03,868	595	1,516½	4,36,64,130	588	.....	5,39,720

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 10th March 1888, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,917	9,611 10 0	24,453 0	1,514 7 0	51 9 0	11,180 10 0	1,842	552	2,394
Or per mile of railway ...	296½	168 0 7	427 20	26 7 7	0 15 3	195 7 5	.....	.....	.....
For previous 9 weeks of half-year ...	123,904	66,864 11 0	2,84,319 0	18,311 7 0	362 6 0	85,538 8 0	10,484	5,290	21,774
Total for 10 weeks ...	140,824	76,476 5 0	3,08,772 0	19,845 14 0	416 15 0	96,739 2 0	18,326	5,842	24,168
COMPARISON.									
Total for corresponding week of previous year ...	17,236½	10,010 4 7	75,222 20	3,274 14 0	15 9 3	13,300 11 10	1,785	904	2,689
Per mile of railway corresponding week of previous year ...	801½	175 0 1	1,315 0	57 4 1	0 4 4	232 8 6	.....	.....	.....
Total to corresponding date of previous year ...	138,973½	75,273 2 10	5,35,368 20	31,741 0 3	549 12 0	1,07,553 15 10	17,585	8,390	25,975

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
57½	13,301	233	57½	11,181	195	57½	5,10,154	192	57½	4,75,787	170	.....	34,367

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 10th March 1888, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,830	404 6 0	23,670 0	712 15 0	9 12 0	1,217 1 0	341 1/2	153	494 1/2
Or per mile of railway ...	.....	41 3 2	.....	59 6 7	0 13 0	101 6 9	.....	.....	.....
For previous 9 weeks of half-year ...	26,064	4,396 14 0	1,91,623 0	4,164 14 0	84 5 0	8,015 15 0	3,053 1/2	1,388	4,441 1/2
Total for 10 weeks ...	28,903	4,801 4 0	2,20,223 0	4,877 13 0	93 15 0	9,863 0 0	3,365	1,540	4,905
COMPARISON.									
Total for corresponding week of previous year ...	2,534	426 3 6	17,239 30	380 1 0	14 12 0	830 0 6	352	141	493
Per mile of railway corresponding week of previous year ...	.....	35 8 4	.....	32 6 9	1 3 8	69 2 9	.....	.....	.....
Total to corresponding date of previous year ...	30,147 1/2	5,035 10 8	2,08,937 20	5,089 6 0	73 15 3	10,217 15 11	3,472	1,529	5,001

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
12	830	69	12	1,217	101	12	45,358	77	12	45,391	77	33	.....

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 10th March 1888, on 74 1/2 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	6,412	4,780 8 0	88,619 30	3,984 15 0	168 3 0	8,933 10 0	603	1,648 1/2	2,251 1/2
Or per mile of railway ...	.....	63 14 7	.....	53 4 6	2 3 11	119 6 11	.....	.....	.....
For previous 9 weeks of half-year ...	43,886	33,015 15 0	8,10,232 36	39,325 10 0	1,049 1 0	73,440 10 0	5,943 1/2	14,447	20,390 1/2
Total for 10 weeks ...	50,298	37,798 7 0	9,04,872 20	43,310 9 0	1,267 4 0	82,374 4 0	6,830 1/2	16,895 1/2	22,625 1/2
COMPARISON.									
Total for corresponding week of previous year ...	4,870 1/2	3,815 8 11	1,20,582 10	4,384 9 6	140 0 6	8,339 13 11	734	1,363	2,117
Per mile of railway corresponding week of previous year ...	.....	51 0 1	.....	58 9 11	1 13 11	111 7 11	.....	.....	.....
Total to corresponding date of previous year ...	57,159 1/2	43,224 0 3	10,07,841 0	52,991 6 6	1,048 7 9	97,223 14 6	7,003	18,036	25,039

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
74 1/2	8,340	111	74 1/2	8,934	119	74 1/2	8,82,018	104	74 1/2	4,10,981	114	24,963	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 10th March 1888, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,974	5,451 3 0	10,086 20	347 8 0	6 0 0	5,804 11 0	881	87	968
Or per mile of railway ...	.....	244 15 11	.....	15 9 11	0 4 4	260 14 2	.....	.....	.....
For previous 9 weeks of half-year ...	186,105	47,051 7 0	79,106 10	2,644 3 0	55 13 0	50,651 7 0	8,131	719	8,850
Total for 10 weeks ...	206,079	53,402 10 0	89,192 30	2,991 11 0	61 13 0	56,456 2 0	9,012	800	9,812
COMPARISON.									
Total for corresponding week of previous year ...	21,951	5,814 11 11	9,886 0	323 15 0	6 15 9	6,145 10 8	913	55	968
Per mile of railway corresponding week of previous year ...	.....	261 5 5	.....	14 8 11	0 5 0	276 3 4	.....	.....	.....
Total to corresponding date of previous year ...	205,703	53,151 0 3	86,674 30	2,749 8 0	68 12 0	55,969 4 3	9,063	479	10,142

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
22½	Rs. 6,146	Rs. 276	22½	Rs. 5,805	Rs. 261	22½	Rs. 2,32,672	Rs. 213	22½	Rs. 2,40,644	Rs. 229	Rs. 16,972	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 3rd March 1888 on 676 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including Steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	195,324*	82,766 0 0	4,96,055 0	83,567 0 0	13,965 0 0	1,80,298 0 0	23,747	25,053	48,800
Or per mile of railway ...	289	122 0 0	734 0	124 0 0	3 0 0†	269 0 0	.....	.....	.....
For previous 9 weeks of half-year ...	993,304	5,08,261 0 0	46,95,910 0	7,94,761 0 0	1,22,627 0 0	14,85,639 0 0	176,814	178,842	355,656
Total for 9 weeks ...	1,188,628	6,51,017 0 0	51,91,965 0	8,78,328 0 0	1,36,592 0 0	16,65,937 0 0	209,591	203,895	404,486
COMPARISON.									
Total for corresponding week of previous year ...	175,580*	73,774 0 0	4,64,711 0	74,312 0 0	13,858 0 0	1,61,944 0 0	20,164	18,462	38,626
Per mile of railway corresponding period of previous year ...	260	122 0 0	707 0	123 0 0	4 0 0†	249 0 0	.....	.....	.....
Total to corresponding date of previous year ...	1,285,844	6,14,478 0 0	53,80,465 0	8,08,432 0 0	1,21,348 0 0	15,41,258 0 0	179,781	195,068	375,449

* Includes 52,000 monthly tickets against 32,080 in the corresponding period of previous year.

† Excluding Steam-boat earnings.

FINANCIAL YEAR.

Approximate Statement of Gross Receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 5TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
206	Rs. 2,51,841	Rs. 267	206	Rs. 1,80,298	Rs. 267	206	Rs. 73,40,328	Rs. 270	206	Rs. 69,64,468	Rs. 289	Rs. 11,15,140	.....

* Audited up to 31st December 1887.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 3rd March 1888, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	33,971	10,150 0 0	58,600 0	5,410 0 0	120 0 0	15,680 0 0	3,507	1,726	5,233
Or per mile of railway ...	272	81 0 0	464 0	43 0 0	1 0 0	125 0 0	.....	.....	.....
For previous 8 weeks of half-year ...	190,273	70,535 0 0	3,71,763 0	34,947 0 0	433 0 0	1,05,915 0 0	27,506	13,874	41,380
Total for 9 weeks ...	224,243	80,685 0 0	4,29,763 0	40,357 0 0	553 0 0	1,21,505 0 0	31,375	15,600	46,973
COMPARISON.									
Total for corresponding week of previous year ...	33,117	4,419 0 0*	37,216 0	2,312 0 0	67 0 0	6,798 0 0	3,493	1,737	5,230
Per mile of railway corresponding period of previous year ...	265	35 0 0	298 0	18 0 0	1 0 0	54 0 0	.....	.....	.....
Total to corresponding date of previous year ...	233,198	78,883 0 0	268,374 0	17,678 0 0	511 0 0	96,522 0 0	33,015	14,807	47,822

* In this period there was a write-back 5,641 on account of Postal Subsidy the item having been disputed by that Department, but subsequently admitted and adjusted in June 1887.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 5TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
125	6,798	54	125	15,680	125	125	5,25,512	88	125	6,16,600*	103	90,094	.....

* Audited up to week ending 31st December 1887.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 3rd March 1888, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,455	4,274 0 0	8,398 0	1,051 0 0	50 0 0	5,375 0 0	2,141	903	3,044
Or per mile of railway ...	156	50 0 0	98 0	12 0 0	1 0 0	63 0 0	.....	.....	.....
For previous 8 weeks of half-year ...	100,535	41,606 0 0	1,55,014 0	13,744 0 0	568 0 0	56,008 0 0	10,623	7,555	24,178
Total for 9 weeks ...	122,990	45,979 0 0	1,63,412 0	14,795 0 0	618 0 0	61,383 0 0	18,704	8,518	27,222
COMPARISON.									
Total for corresponding week of previous year ...	13,910	5,113 0 0	9,947 0	1,397 0 0	64 0 0	6,574 0 0	2,418	612	3,030
Per mile of railway corresponding period of previous year ...	162	59 0 0	114 0	16 0 0	1 0 0	76 0 0	.....	.....	.....
Total to corresponding date of previous year ...	115,869	41,555 0 0	2,14,347 0	18,823 0 0	1,088 0 0	62,866 0 0	10,406	10,984	30,490

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 5TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
86	6,574	76	86	5,375	63	86	2,57,679	63	86	2,57,758*	70	30,079	.....

* Audited up to week ending 31st December 1887.

ASSAM-BEHAR STATE RAILWAY.

(PURNEAH SECTION.)

Approximate Return of Traffic for week ended 3rd March 1888, on 39 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,385	765 0 0	26,124 0	2,314 0 0	15 0 0	2,394 0 0	546	546	2,098
Or per mile of railway ...	61	20 0 0	670 0	57 6 0	.....	77 0 0	.....	.....	.....
For previous 8 weeks of half-year ...	24,296	8,626 0 0	11,60,600 0	15,332 0 0	118 0 0	26,128 0 0	4,364	4,364	8,736
Total for 9 weeks ...	26,681	9,393 0 0	1,86,724 0	17,596 0 0	133 0 0	27,122 0 0	4,914	4,914	9,828
COMPARISON.									
Total for corresponding week of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per mile of railway corresponding period of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total to corresponding date of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Bihar State Railway.

RECEIPTS FOR WEEK ENDING 8TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
				Rs.	Rs.					Rs.	Rs.	Rs.	
.....	39	2,994	77	.....	.....	.....	80	1,14,250*	61	1,14,250	.....

* Audited up to week ending 31st December 1887.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 10th March 1888, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,888	1,379 10 9	24,888 0	1,591 1 0	17 12 0	2,988 7 9	500	254	753
Or per mile of railway ...	143	50 10 0	913 0	58 6 0	9 10 0	109 10 0	.....	.....	.....
For previous 9 weeks of half-year ...	29,640	11,027 5 3	1,63,392 0	8,139 15 0	278 4 0	19,445 8 3	4,591	3,710½	8,291½
Total for 10 weeks ...	33,528	12,407 0 0	1,88,280 0	9,731 0 0	296 0 0	22,434 0 0	5,090	3,964½	9,054½
COMPARISON									
Total for corresponding week of previous year ...	3,209	1,223 6 0	12,448 30	707 5 0	25 2 0	1,955 13 0	500	412	912
Per mile of railway corresponding week of previous year ...	120	44 14 0	457 0	26 15 0	9 15 0	71 12 0	.....	.....	.....
Total to corresponding date of previous year ...	31,780½	11,760 15 0	1,42,929 30	7,686 9 0	230 8 6	19,678 0 6	5,162	3,664	8,826

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 13TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
27½	1,956	73	27½	2,998	110	27½	22,190	62	27½	20,580	68	6,390	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 10th March 1888, on 259 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week on 259 miles open	43,887	Rs. A. P. 16,482 0 0	Mds. s. 1,97,888 0	Rs. A. P. 19,020 0 0	Rs. A. P. 3,448 0 0	Rs. A. P. 39,550 0 0	6,288	7,102	13,390
Or per mile of railway	169	63 10 0	764 0	75 13 0	3 4 0	142 11 0	.....	.....	.....
For previous 9 weeks of half-year	388,133	1,57,317 0 0	18,82,790 0	1,93,758 0 0	33,314 0 0	3,84,280 0 0	60,090	77,848	133,538
Total for 16 weeks	432,020	1,73,690 0 0	20,80,018 0	2,13,387 0 0	36,762 0 0	4,23,848 0 0	66,978	84,950	151,928
COMPARISON.									
Total for corresponding week of previous year on 246 miles open	30,691	12,000 15 0	1,89,753 0	20,383 11 0	2,688 4 0	35,072 14 6	5,539	6,029	11,568
Per mile of railway corresponding week of previous year	125	48 12 0	771 0	82 14 0	1 5 0	132 15 0	.....	.....	.....
Total to corresponding date of previous year	377,663	1,53,426 8 10	16,55,019 10	1,64,510 10 0	29,098 0 5	3,47,935 3 3	56,798	69,308	113,101

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	
246	35,073	143	259	39,559	153	246	15,16,674	126	252-18	17,28,612	140	2,11,835	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 3rd March 1888	...	...	9,384
Corresponding week last year	...	...	6,485
Increase	...	...	2,899
Receipts from 1st January to 3rd March 1888	...	...	62,239
From 1st January to 5th March 1887	...	...	53,361
Increase	...	...	8,878
			Miles.
Miles open, week ending 3rd March 1888	...	...	51
Corresponding week last year	...	...	51
			Rs. A. P.
Receipts per mile open, week ending 3rd March 1888	...	...	184 0 0
Corresponding week last year	...	...	127 2 4
Increase	...	...	56 13 8

DARJEELING, the 12th March 1888.

H. BIRCH, Acting Secretary, D.-H. Ry.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MARCH 28, 1888.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
CONTINGENT Expenditure	657	RESULTS of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 18th to 24th March 1888	674
Discovery of a Process for Manufacturing Pure Sulphate of Quinine at Mungpoo	660	Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 10th March 1888	676
Custom House Regulations	664	Areas leased for Irrigation up to end of January 1888	678
Rainfall, Weather, and State and Prospects of the Crops	665	Circular and Eastern Canals for the week ending 24th March 1888	679
Results of the Meteorological Observations taken at the Alipore Observatory from 18th to 24th March 1888	667	Weekly Return of Traffic Receipts on Indian Railways	680
Meteorological Report of the Province of Bengal for the week ending Friday, the 23rd of March 1888	668		
Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 23rd of March 1888	670		

CONTINGENT EXPENDITURE.

FINANCIAL DEPARTMENT—FINANCE.

Calcutta, the 22nd March 1888.

RESOLUTION.

READ—

Resolution, dated the 20th August 1885.
Circular No. 5, dated the 17th October 1886.
Replies to the Circular.

The Resolution recorded by the Government of Bengal on the 20th August 1885 prescribes the system under which contingent expenditure is at present incurred in Bengal. The expenditure is divided into three classes, viz., *Special*, for which the previous sanction of Government or of some controlling officer is required; *Countersigned*, in which sanction is not required, but the bills have to be countersigned by the controlling officer; and *Contract*, in which a lump sum is placed at the disposal of the disbursing officer, who spends it at his discretion, subject only to the condition that his allotment is not exceeded. By these orders, however, certain items of expenditure, which are not really within the control of the disbursing officer, were included in the *Contract* allotment; and suggestions for an amendment of the system in this and other directions were made in Government Circular No. 5T—F, dated the 17th October 1886.

2. The reports received from the officers consulted show that there is a consensus of opinion in favour of the general proposals contained in the circular. The first object aimed at was the entire removal from the *Contract* system of items which do not depend on the discretion of the controlling officer, and in which, therefore, saving can bring him no credit and

excess should bring him no blame. The second was to enlarge interest and responsibility by allowing the saving of lump grants and the utilization of savings on objects other than contingencies. As regards the first point, it was proposed to follow the Bombay system, and to allow such expenditure to proceed without audit, the order passing the amount being accepted as a voucher by the Accountant-General. This would, however, reduce to only a few items the expenditure classed under "Countersigned Contingencies," and the question was therefore raised whether it would not be expedient to abolish this class altogether. The whole subject was considered at the conference of Commissioners recently held at Calcutta, and it has been decided to abolish this class and to substitute a class to be called *Regular* contingencies, in which the charges as they arise will be incurred by the disbursing officer in accordance with the scales laid down by Government, without sanction of superior authority, and without reference to budget provision. The new class will contain the following items:—

- | | | |
|---|------------------------------|---|
| 1. Fees to pleaders in criminal cases. | 6. Escort charges. | 14. Municipal rates and taxes. |
| 2. Fees to pleaders in civil suits. | 7. Remuneration to copyists. | 15. Rewards for the destruction of venomous snakes. |
| 3. Diet and travelling allowance to witnesses. | 8. Section-writing. | 16. Rewards for the destruction of wild animals. |
| 4. House allowances. | 9. Process-serving charges. | 17. Compensation for land taken up for public purposes. |
| 5. Charges for remittance of treasure to other districts. | 10. Keep of elephants. | |
| | 11. Diet of insane persons. | |
| | 12. Boarding charges. | |
| | 13. Diet of patients, &c. | |

Charges on account of *Regular* Contingencies will be budgeted for in the ordinary manner, and the charges as they arise will be incurred by disbursing officers in accordance with fixed scales without sanction of superior authority and irrespective of budget provision.

3. This enables Government to provide for two classes only of fixed grants for contingencies—(1) *Special*, in which the controlling officer is allowed to sanction up to a certain amount, receiving a contract allowance up to that amount; (2) *Contract*, in which he sanctions all, receiving similarly a lump grant.

The following table shows the items to be placed under each head:—

Special Contingencies.	Contract Contingencies.
1. Purchase of boats.	1. Purchase of tents.
2. Ditto of elephants.	2. Purchase of books and publications.
3. Repairs to steamers and schooners.	3. Petty construction.
4. Cost of supplying provisions.	4. Country stationery.
5. Other items of large amount and unusual character.	5. Remittance of treasure within district.
	6. Hot and cold-weather charges.
	7. Printing at private presses (without grant).
	8. Tour charges.
	9. Treasury charges.
	10. Repairs to tents.
	11. Purchase and repair of furniture.
	12. Purchase of clothing.
	13. Office and ground rent.
	14. Rewards.
	15. Petty repairs.
	16. Law charges.
	17. Postage and telegram charges.
	18. Office expenses.
	19. Miscellaneous.
	20. Process fees advanced.
	21. Repairs of boats.
	22. Country medicines.
	23. Maintenance of strangers and indigent persons.
	24. Burial of paupers.
	25. Support of pilgrims.
	26. Subsistence allowance to vagrants.
	27. Purchase of accoutrements.
	28. Rewards for marksmanship.
	29. Cost of photographs.
	30. Passage and diet money of insanes on release.
	31. Purchase of raw materials for manufactures in lunatic asylums.
	32. Charges for deportation of vagrants.
	33. All other items of expenditure not specially included in Regular or Special Contingencies.

This classification is similar to that proposed in paragraph 12 of the circular, but a few changes have been made. The headings "Compensation

for land taken up for public purposes," "Municipal rates and taxes," "Rewards for the destruction of venomous snakes," and "Rewards for the destruction of wild animals," are classed under *Regular* Contingencies, as the expenditure on these items cannot be controlled. The headings "Petty construction" and "Purchase of tents" are classed under *Contract* Contingencies, and a new item, "Printing at private presses," has been included in this class. Subject to the sanction of the Government of India, "Section-writing" and "Purchase of books" will be included under *Regular* and *Contract* Contingencies respectively.

4. Under the class of *Special* Contingencies, a lump allotment will be made to each controlling officer to meet all expenditure for which the previous sanction of Government is not required. From this grant Commissioners of Divisions will have power to sanction expenditure up to Rs. 250, the Inspector-General of Police up to Rs. 1,000, and other controlling officers up to Rs. 100. The grants will be calculated on the basis of the expenditure of the past four years. The procedure in respect of *Contract* Contingencies will remain unchanged.

5. Commissioners of Divisions will have the disposal of the whole grants for their divisions on account of *Special* and *Contract* Contingencies, and will allot the grants annually at their discretion. Savings accruing in the grants will be re-granted at the close of the year, and may be spent on contingencies or on temporary establishments without reference to higher authority. This permission to spend savings on temporary establishments is, however, subject to the sanction of the Government of India. Savings may also be spent by Commissioners of Divisions, or under their authority, on grants to local bodies. As soon as possible after the close of each year, the Accountant-General will report to the controlling officers and to Government the savings effected in the grants.

6. The Accountant-General will be asked to issue specific instructions on all questions of detail. The allotment to be made to each officer will be fixed in communication with the Accountant-General, and will be based on the actuals of past years. When fixed, it will remain unaltered for three years, after which it will be subject to revision.

7. The orders contained in this Resolution will have effect from the beginning of the year 1888-89.

ORDER.—Ordered that copies of the Resolution be forwarded to the Board of Revenue, Commissioners of Divisions, District and Sessions Judges, Inspectors-General of Civil Hospitals, Police, and Registration, Sanitary Commissioner, Director of Public Instruction and Accountant-General.

Ordered also that copies of the Resolution be forwarded to all Departments of this Government, except the Public Works Department.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Bengal.

DISCOVERY OF A PROCESS FOR MANUFACTURING PURE SULPHATE OF QUININE AT MUNGPÖÖ.

RESOLUTION.

Dated Calcutta, the 26th March 1888.

APPREHENSIONS of the extermination, in their native forests, of the Quinine-yielding Cinchona trees having reached an acute stage about thirty years ago, the Government of India decided to take effectual steps to introduce their cultivation into India. The collection of seed and seedlings in the wide tract of difficult country over which the best medicinal sorts are naturally scattered was no easy task. But it was successfully accomplished by Messrs. Markham, Pritchett, Spruce and Cross. Contemporaneously with these efforts on the part of the English Government, the Dutch authorities were at work on behalf of their Malayan Colonies, and by the year 1862 Cinchona cultivation had been successfully initiated in India and Malaya. The localities selected for the experiment of Cinchona growing in India were the Nilgiris and British Sikkim. And the excellence of this selection has been proved by the fact that the original nurseries in both localities have developed into large plantations which still remain in the hands of Government. From these two centres, seed and seedlings have been freely distributed to planters, and large tracts of land, especially in Southern India and Ceylon, have been covered with Cinchona trees by private enterprise.

2. The Cinchona trees thus introduced into India are practically of two sorts: (1) *Quinine* yielders and (2) *Mixed alkaloid* yielders. Of the Quinine yielders there are two kinds, viz., *Yellow* or *Culisyaya* (including *Ledgeriana*) and *Crown* or *officinalis*, barks. Of the mixed alkaloid yielders there are also two kinds, viz., *red* or *succirubra*, which has been in cultivation from the beginning, and a kind which has come into prominence during the past few years, and which in Annual Reports has been referred to as *Hybrid* bark. Red bark contains a comparatively small proportion of Quinine with large proportions of Cinchonidine and Cinchonine. It had been chiefly used by druggists in the preparation of decoctions and tinctures, and had not been used by Quinine makers as a source of Quinine. This red-bark tree was, however, the kind which in the early days of the cultivation it was found most easy to propagate; and in all plantations, both public and private, it greatly preponderated over the other sorts.

3. The cultivation of Cinchona trees having been pushed beyond the region of experiment, the next problem that presented itself was the utilization of their bark. For the private grower, the most lucrative course up to the present time has been to sell the crude bark in London. The object of Government was not, however, to secure a financial success, but to provide the people of the country, at the lowest possible rate, with an efficient remedy for the most prevalent of all the diseases of the country. The first step for Government to take was therefore to discover whether it was really a fact that Quinine is the only alkaloid worth extracting separately from Cinchona bark, and whether Cinchonidine and Cinchonine might not each be an efficient febrifuge. It was true that Quinine alone had got into use as a febrifuge, and that it alone of the Cinchona alkaloids had found a place in the British Pharmacopœia. On the other hand, tinctures, decoctions and various pharmaceutical preparations of red bark, into the constitution of which all three alkaloids must undoubtedly enter, had for many years borne the reputation of excellent remedies for fever. The presumption therefore appeared to be that the position claimed for Quinine as the only real febrifuge yielded by Cinchona bark would prove, on careful examination, to be untenable; and that the other two alkaloids would also be found

to have value as febrifuges. For the purpose of investigating this point, Commissions of medical officers of all three Presidencies were formed during the years 1866 to 1868. These Commissions were furnished with supplies of the three alkaloids, pure and unmixed, and after very extensive trials, their unanimous verdict was that Cinchonidine and Cinchonine are both excellent febrifuges, the former not much less efficient than Quinine itself.

4. Having thus established the value of Cinchonidine and Cinchonine, the next point to be settled was how best to utilize the large stocks of these alkaloids contained in the bark of the trees growing in the Government plantations. To do this, Messrs. Broughton and Wood, two professional chemists, were engaged in England and were located as Government Quinologists on the Nilgiri and Sikkim plantations respectively. Mr. Broughton (the Nilgiri Quinologist), as the result of his labours, invented a preparation of red bark which he called *Amorphous Quinine*, and which contained all the alkaloids of red bark in the form of a non-crystalline powder. Of this Amorphous Quinine no large amount was ever manufactured; and its preparation ceased when Mr. Broughton resigned the service of Government. Mr. Wood, who did not arrive at the Sikkim plantation until 1873, concluded, after much observation and experiment, that the best way of utilizing the red bark was to make from it the preparation now so well known as Cinchona Febrifuge. This, like Mr. Broughton's, is in the form of a powder, and contains the three chief alkaloids of red bark mixed in the proportions in which they naturally occur in the bark. Cinchona Febrifuge was then a perfectly new product, unknown to Pharmacy, and it was not clear how it might be accepted by the medical profession.

Mr. Wood therefore adopted for its manufacture on a small tentative scale a simple and inexpensive acid and alkali process, requiring only the rudest apparatus. He intended, should the product be favourably accepted by the medical profession, to replace this simple process by one more efficient, but more complicated, and involving the extensive use of spirit. During the first year of its manufacture (1874-75), only 48 pounds of this new drug were issued. At first, and chiefly owing to a misapprehension as to the proper dose in which it should be given, some prejudice existed against this drug. In 1875-76, however, 1,940 pounds of it were consumed, and its consumption so materially increased during succeeding years that, up to the present date, no less than 87,704 pounds have been issued from the factory. A preparation similar to, and avowedly an imitation of, Cinchona Febrifuge is now made and sold in London under the name of *Quinetum*, but until Cinchona Febrifuge had first been manufactured in India, no similar preparation existed. It is therefore a remedy for which the world at large is indebted to India. Cinchona Febrifuge has been used in India as a substitute for Quinine. It has been so used by Government in its own medical institutions, and it has been freely offered to the Indian public. Its sale has, however, been restricted to the limits of India. From the beginning, and until now, its price has uniformly been sixteen rupees eight annas per pound, and in this respect it has presented a contrast to Quinine, the price of which has fluctuated considerably, rising at one time as high as 16s. 6d. per ounce. According, however, to statistics prepared by an English pharmacologist, the average price of Quinine in London from 1875 to 1887 (the period during which Cinchona Febrifuge has been in use) has been 8s. 4½d. per ounce. The sterling value (calculated at this average rate) of 87,704 pounds of quinine would be £587,616, while this quantity of febrifuge has actually been delivered to the Indian consumer for the sum of Rs. 14,17,116. The actual saving to India has therefore been very great, and the capital account of the plantations (about eleven lakhs of rupees) has been covered several times.

5. The preponderance of red-bark trees in the Sikkim plantation, while he was attached to it, naturally induced Mr. Wood to give his attention first to the utilization of their bark. But he by no means neglected the Quinine barks. Of these barks only one,—*Calisaya* and its variety *Ledgeriana*,—really thrives in Sikkim, the Crown bark, or *Cinchona officinalis*, tree having proved a

comparative failure. Mr. Wood made many experiments in the manufacture of pure Sulphate of Quinine; but, up to the time of his retirement, for private reasons, from the service of Government in 1879, he had not succeeded in discovering an efficient process. Mr. Wood was of opinion that good Quinine barks could be grown in Sikkim, and that it might be possible to extract the Quinine from them on the plantation. Dr. King, the Superintendent of the Plantation, was very strongly of this opinion, and in 1875 he recommended that all further planting of red-bark trees should cease. This recommendation was not acted upon for some time. Full effect has, however, been given to it of recent years, and *succirubra* has been supplanted by *Calisaya* to the extent of about a million trees. The retirement of Mr. Wood did not put an end to the experiments on the manufacture of Quinine. Mr. Gammie, the Resident Manager, took the matter up with energy, and, encouraged and assisted by Dr. King, he carried on a long series of experiments on an acid and alkali process of manufacture by which he succeeded in producing excellent Quinine. He never, however, succeeded in recovering much more than half of the amount contained in the bark upon which he operated. The acid and alkali process had therefore to be abandoned as wasteful and inefficient. A process depending on the maceration of the bark in spirit was next tried; but, after much experiment, it was in turn abandoned. During a visit which he paid to Holland in 1884, Dr. King acquired some hints as to a process of extraction by means of oil. And now, benefiting by the advice of some chemical friends, Mr. Gammie has been able to perfect this process, with the result that the whole of the Quinine in yellow bark can be extracted in a form undistinguishable, either chemically or physically, from the best brands of European manufacture. This can be done so cheaply that, as long as the supply of bark is kept up, Quinine need never cost Government much above twenty-five rupees per pound. It is true that, at the present moment, Quinine is obtainable in the open market at rates not very different from this; but that is due to entirely exceptional causes. For some time back the Ceylon planters have been up-rooting their Cinchona trees, both to save them from disease, and to make way for tea planting which appears now to be becoming the principal industry of that Colony; and Cinchona bark has actually been sold in London below the cost of its production in Ceylon. Indeed, so far has the fall in price gone, that South American bark has been practically driven out of the market. This is a state of matters which cannot continue very long, and which is not likely to recur. In the ordinary course, therefore, Quinine might be expected soon to rise to what may be considered its normal price. The object of making public the process now discovered is to check this rise in the price of a drug of such general utility.

6. The cordial thanks of Government are due to Dr. King and his coadjutors—and especially to Mr. Gammie—for the patience, energy and resource displayed by them in their long search for the best method of utilizing these valuable medicinal barks. The Government has no desire to make a profit by the discovery, and the details are now produced in order that private growers of Cinchona may be enabled to take full advantage of the process, and that a permanent reduction in the price of Quinine may ensue.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Bengal.

Method of extraction of the alkaloids from Cinchona Bark by cold oil as used at the Government Cinchona Factory in Sikkim.

In order that the oil may speedily and effectually act on the Cinchona bark, the latter is reduced to a very fine powder by means of Carter's Disintegrator; and to get the powder of a uniform fineness, it is passed through a scalper, which is a machine commonly used for sifting flour. The scalper is in the form of a box enclosing a sloping, six-sided, revolving

chamber, covered with silk of 120 threads to the lineal inch. It is driven at the speed of about thirty revolutions to the minute. Any particles of the powder which may be too coarse to pass through the silk meshes drop out at the lower end of the revolving chamber and are again passed through the Disintegrator.

2. * A hundred parts of the finely-powdered bark are then set aside to be mixed with 8 parts of commercial caustic soda, 500 parts of water, and 600 parts of mixture composed of one part of fusel oil to four parts kerosine oil. If the caustic soda be of inferior quality, a little slaked lime (about 5 parts) may be used in addition to the eight parts of caustic soda; or caustic soda may be altogether omitted, and 15 parts of slaked lime may be used instead of it. The caustic soda is dissolved in the water and mixed with the bark. Then the oil is added, and the whole is kept thoroughly intermixed in an agitating vessel. Should lime be used, it is mixed in fine powder with the dry bark before adding the water and oil.

3. The agitating vessels in use at Mungpoo are barrels with winged stirrers revolving in them vertically, and with taps on the sides for drawing off the fluids. The first stirring is carried on for four hours, and then the whole is allowed to rest quietly in order that the oil may separate out to the top of the watery fluid. When the oil, which has now taken up the greater part of the alkaloids, has cleared out, it is drawn off by a tap placed just above the junction of the two fluids. The oil is then transferred to another agitator, and is there thoroughly intermixed with acidulated water for five or ten minutes, the mixture being again allowed to rest for the separation of the oil. It will now be found (if sufficient acid has been used and the stirring has been thorough) that the alkaloids have been removed from the oil to the acidulated liquor. The oil is again transferred to the bark mixture, and is kept intermixed with it for two or three hours; the oil is again drawn off in the same way, washed as before in the same acidulated liquor; and this process is repeated a third or a fourth time or until it is found, by testing a small quantity of the oil, that the bark has been thoroughly exhausted of its alkaloids. Each stirring subsequent to the second, need not be continued for more than an hour. The quantity of acid required to take up the alkaloids from the oil will entirely depend on the quality of the bark operated on. If the bark contains 4 per cent. of alkaloids, about 2lbs. of either sulphuric or muriatic acid mixed in twenty gallons of water should be sufficient, and so on in proportion.

4. The after-treatment of the acidulated water containing the alkaloids depends on the product desired, and on the kind of acid that has been used. Should sulphate of quinine be desired and sulphuric acid have been used, the liquor is filtered (if necessary), heated and made neutral by adding a very weak solution of either caustic soda or liquor ammonia. It is then allowed to cool, and as it cools the crystals form out. These crystals are afterwards separated from the mother liquor by draining through a cloth filter. After they have been thus obtained, the crystals are dried. They are next dissolved in about fifty times their weight of boiling water. The resulting liquor is filtered hot through a little animal charcoal. On cooling after filtration the crystals again form out, and they are separated as before from the mother liquor by filtration through a cloth. The crystalline mass obtained by filtration is then placed in small lumps on sheets of white blotting paper stretched on slabs of plaster of Paris. By this means they are practically dried. They are afterwards thoroughly dried by being laid on blotting paper in a room heated to about 10 degrees above the temperature of the open air.

5. If Cinchona febrifuge is wanted, the alkaloids are exhausted from the oil by muriatic acid, the solution being neutralized and filtered in the same way. On an excess of caustic soda solution being added, the alkaloids are precipitated. After standing some hours the whole bulk of liquor and precipitate is passed through cloth filters; and when the alkaline liquor has drained off, the precipitate is washed with a little plain water, dried, and powdered. The powder is Cinchona Febrifuge ready for use.

The 24th March 1888.

J. A. GAMMIE.

CUSTOM HOUSE REGULATIONS.

FINANCIAL DEPARTMENT—CUSTOMS.

Calcutta, the 27th March 1888.

RESOLUTION.

SOME correspondence has lately passed between Government and the Chamber of Commerce regarding the existing Custom House Regulations. The points which, in the opinion of the Committee of the Chamber require attention, are—

- (1) The number of holidays.
- (2) The charges for overtime working.
- (3) The system of passes and the general routine of Custom House business.

The first two points are within the competence of the Local Government to determine. The third, however, can only be usefully discussed in connection with proposals for the amendment of the Imperial Act for the Regulation of Sea Customs (Act VIII of 1878). Before deciding whether any representation should be made to the Government of India on this subject, the Lieutenant-Governor considers it desirable that the question should be thoroughly investigated and reported upon by a Committee. The following Committee is accordingly appointed for this purpose :—

PRESIDENT :

1. Hon'ble Colman Macaulay, C.I.E., Secretary to the Government of Bengal.

MEMBERS :

2. Hon'ble Robert Steel.
3. E. D. Wylie, Esq.
4. J. Scobell Armstrong, Esq., Collector of Customs.

The Committee will be requested to consider the first and second points mentioned above as well as the third. They will also be invited to favour Government with their opinion on certain memorials which have been submitted by members of the Preventive Service.

By order of the Lieutenant-Governor of Bengal,

L. P. SHIRRES,

Under-Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government during the week ending the 24th March 1888.

No.	District and date of return	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIVN.	1 Burdwan Mar. 24, '88	Nil	Weather—seasonable. State and prospects of crops good. Sugarcane outturn excellent. Common rice is now selling at 22 annas per rupee. There is severe cholera at Rancegunge affecting cooly emigrants. There have been over 150 fatal cases.
	2 Bankoora „ 24, '88	Nil	Weather—hot and dry. Pressing of sugarcane nearly finished; yield will be 14 annas in the Sudder sub-division. Wheat, barley and mustard are being reaped. Prices continue unaltered.
	3 Beerbhoom „ 24, '88	Nil	Weather—warm; west winds. Wheat is being harvested.
	4 Midnapur „ 24, '88	Nil	Weather—hot; west wind. Boro crop doing well.
	5 Hooghly „ 24, '88	Nil	Weather—normal. Prospects of crops continue good.
	6 Serampur „ „ „ 0.03		
PRESIDENCY DIVN.	Howrah „ 26, '88	Nil	Weather—seasonable. Boro crop promising.
	<i>Central Districts.</i>		
	6 24-Pergha. Mar. 27, '88	Nil	Weather—very hot and bright. Morning fogs for part of the week. All standing crops flourish. Ploughing continues.
	7 Nudden „ 24, '88	Nil	Weather—seasonable; temperature rising. Wind westerly. Great activity in indigo sowing. Tillage for early rice in progress. Grain, wheat and barley good. Outturn of winter crops good.
	8 Khoolna „ 24, '88	Nil	Weather—considerably warmer. Boro rice promises well.
	9 Jessore „ 24, '88	Nil	Hot weather has set in, and the heat is rather severe. The rainfall of the last week has facilitated the sowing of paddy and indigo. Prospects of boro good.
RAJSHAHY DIVN.	10 Moorshedabad „ 24, '88	Nil	Weather—getting warmer. Rubbi crops are still being harvested.
	11 Dinagepur Mar. 24, '88	Nil	Weather—rather hot. Sugarcane is being planted and jute sown. Prospects of rubbi good. Price of rice stationary.
	12 Rajshahye „ 24, '88	Nil	Weather—getting hot. Spring crops are being reaped. Lands are being prepared for early sowings.
	13 Rungpur „ 24, '88	Nil	Weather—clear and warm. Sowing of aus and jute commenced. Tobacco is being cut. Prospects of wheat and tobacco good.
	14 Bogra „ 24, '88	Nil	Weather—seasonable. Rain would be useful for early sowings. Prospects continue good.
	15 Pabna „ 24, '88	Nil	Weather—hot with strong wind. Prospects of crops good.
	16 Darjeeling „ 24, '88	Nil	Weather—still unsettled; only slight rain here and there. Ploughing continues in the Terai. Prospects of crops favourable.
	17 Julpigoreo „ 24, '88	Nil	Weather—seasonable; at times cloudy. Standing crops doing well. Ploughing for aus and jute continues. Prices stationary.
<i>Eastern Districts.</i>			
DACCA DIVISION.	18 Dacca Mar. 24, '88	Nil	Weather—hot and stormy. Pulses are being gathered; outturn good. Ploughing for rice and jute going on. Early rice plants doing well.
	Naraingunge „ „ „ 3.39		
	19 Furreedpur „ 24, '88	Nil	No rain during the week. Weather dry and hot. Harvesting of cold-weather crops continues.
	20 Backergunge „ 24, '88	0.20	Weather—seasonable. Prospect of crops good.
	21 Mymensingh „ 23, '88	Nil	Weather—hot. Prospects of crops good.
	Jamalpur „ „ „ 0.19		
	Kishoregunge „ „ „ 0.88		
CHITTAGONG DIVN.	Attia „ „ „ 0.76		
	Netrokona „ „ „ Nil		
	22 Chittagong Mar. 27, '88	Nil	Weather—seasonable. Outturn of winter crops fair. Prices steady.
	23 Noakholly „ 23, '88	0.29	Weather—seasonable. Some of the pulses are being harvested. Cultivation of aus progressing.
	Fenny „ „ „ 0.91		
	24 Tipperah „ 22, '88	0.90	Weather—more moist than is usually experienced at the time of the year. Good crops are being harvested where they have arrived at maturity. Those that are not ripe yet are coming on very nicely. The lands are being prepared for fresh cultivation. Both state and prospects are excellent.
	Brahmanbariah „ „ „ 5.09		
CHITTAGONG DIVN.	Chandpur „ „ „ 1.05		
	25 Chittagong Hill „ 20, '88	0.81	Weather—rainy and stormy during the first four days of the week; hot and sultry since. Jute cutting has re-commenced after the rain. Tobacco and other crops doing well.
	* Tracts. „ „ „		
CHITTAGONG DIVN.	Hill Tipperah „ 22, '88	2.22	Weather—warm. Boro paddy and chillies doing well.

No	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR			
PATNA DIVN.	26 Patna Mar. 24, '88	Nil	Weather—sultry with high west wind. <i>Rubbi</i> crops are still being harvested; fair outturn expected. <i>Masoor</i> and peas extensively damaged by insects in the Barh sub-division. Sugarcane pressing and opium collection almost completed.
	27 Gya „ 24, '88	Nil	Weather—seasonable. Harvesting of <i>rubbi</i> and extraction of opium nearly finished. Sugarcane being irrigated.
	28 Shahabad „ 24, '88	Nil	Weather—hot with strong west wind. Harvesting of <i>rubbi</i> nearly over; threshing has commenced. Collection of opium almost completed; prospects very good, better than for many years past both as to quantity and quality.
	29 Darbhanga „ 24, '88	Nil	Weather—getting warm. <i>Rubbi</i> harvest in progress. <i>Moong</i> and early rice are being sown. Collection of opium still going on. Indigo has germinated in places. Price of common rice averages 21 seers per rupee.
	30 Mozufferpur „ 24, '88	Nil	Weather—warm; west wind. <i>Rubbi</i> harvest progressing; threshing commenced. Paddy, <i>moong</i> and <i>china</i> are being sown; earlier sowings have already germinated.
	31 Sarun „ 24, '88	Nil	Weather—getting hot gradually. Harvesting of <i>rubbi</i> crops progressing. Gathering of opium almost over in many places. Indigo sowings going on. Prospects of all standing crops good.
	32 Champaran „ 24, '88	Nil	Weather—dry with high west wind. <i>Rubbi</i> crops are being reaped. Extraction of opium in full swing and approaching completion; produce good. Indigo sowings progressing.
BHAGULPORE DIVN.	33 Monghyr Mar. 24, '88	Nil	Weather—seasonable; strong north-westerly wind blowing at the time of report. <i>Rubbi</i> harvest in progress; outturn fair. Opium collection finished with good outturn.
	34 Bhagulpur „ 24, '88	Nil	Weather—seasonable. <i>Rubbi</i> harvest in progress. Rice and <i>moong</i> being sown in low lands in the north.
	35 Patna „ 24, '88	Nil	Temperature rising; west wind prevails. In the Sudder sub-division wheat and oats are light crops, but in other sub-divisions they are good. Other cold-weather crops fair. Land is being prepared for <i>khadoi</i> and jute.
	36 Malda Chanchal „ 24, '88	0.05	Weather—days warm, mornings and evenings cool. Harvesting of <i>rubbi</i> crops continues. <i>Boro</i> paddy is being transplanted. Common rice is selling at 22 seers per rupee at English Bazar.
	37 Sonthal Pergals. Deoghur „ 24, '88	0.05	Weather—hot with strong west wind. Harvesting of wheat, barley, and linseed still going on; outturn below the average. Prospects of <i>mohua</i> crop good. Prices stationary.
ORISSA.			
ORISSA DIVN.	38 Cuttack Mar. 23, '88	2.13	Weather—fair. Threshing of <i>sarad</i> going on in some places and completed in others. <i>Dalua</i> is flowering and partly ripening. Price of rice stationary.
	39 Pooree Khoorda „ 22, '88	Nil	Weather—seasonable. Land is being ploughed for the ensuing <i>sarad</i> crop. <i>Rubbi</i> crop is being gathered. <i>Dalua</i> crop is being harvested. Mango suffers for want of rain. Common rice 24 seers 4 chittacks per rupee in the Sudder sub-division and 23 seers 8 chittacks in the Khoorda sub-division.
	40 Balasore „ 23, '88	0.50	Weather—days hot, but nights still cool. Rainfall beneficial to cultivation, but some damage to fruit and vegetables by hail in the Bhadruck sub-division.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41 Hazaribagh, Mar. 23, '88	Nil	Weather—seasonable; very warm. Stormy winds. Prospects of mango and <i>mohua</i> continue good. Gathering of opium almost completed. Condition of agricultural stock fair.
	42 Lohardugga „ 24, '88	Nil	Weather—getting warmer. Harvesting of <i>rubbi</i> crops continues. Prospect of <i>mohua</i> good.
	43 Singbloom „ 23, '88	Nil	Weather—clear and getting very warm. <i>Rubbi</i> being harvested. Cotton coming into blossom. Sugarcane being planted. Mango and <i>mohua</i> promising.
	44 Manbloom „ 24, '88	Nil	Weather—hot with strong west wind. Wheat, barley and oats are being harvested; outturn varies from 6 to 12 annas. <i>Mohua</i> is mostly doing well.

Published for general information.

CALCUTTA, REVENUE DEPT.;
The 27th March 1888.P. NOLAN.
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 18th to 24th March 1888.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1888.		°		Inches	°	°	°	°	°	Inches	°	%			Inches	
Mar.	18th	148.0	10.0	29.904	82.3	91.6	18.1	73.5	75.2	0.782	71.8	73	SW by S and variable	100	Nil	Chiefly clear, o
"	19th	148.5	10.1	.899	82.3	91.8	18.5	73.3	76.2	.817	73.1	76	SW by S and SSW	88	"	Chiefly clear, o
"	20th	148.7	9.5	.908	82.3	93.0	18.0	75.0	72.7	.680	67.7	65	WSW, WNW and NE by N.	50	"	Chiefly clear, o
"	21st	148.5	10.2	.829	82.3	95.0	23.8	71.2	73.7	.718	69.3	69	SW and SSW	123	"	Clear, o, p.
"	22nd	151.5	9.8	.773	84.1	96.5	22.3	74.2	74.1	.726	69.6	67	SW and WNW	104	"	Chiefly clear p.
"	23rd	151.9	9.5	.743	84.3	97.5	21.2	73.3	72.6	.647	66.3	61	SW and WNW	121	"	Clear, p.
"	24th	150.5	9.0	.712	81.3	98.9	20.1	72.8	71.5	.721	69.4	61	SW and SSW	159	"	Chiefly clear.

The mean pressure of the seven days	...	...	...	Inches.
The average pressure of the corresponding period for 24 years, S. G.'s Office	...	...	...	29.824
The total number of hours of bright sunshine	...	...	...	Hours.
The maximum possible number of hours of sunshine	...	...	...	84.6
The mean temperature of the seven days	...	...	...	°
The average temperature of the corresponding period for 24 years, S. G.'s Office	...	...	...	83.1
The extreme variation of temperature	...	...	...	27.7
The maximum temperature	...	...	...	98.9
The highest velocity of the wind in one hour	...	...	...	Miles.
The highest pressure of wind on one square foot	...	...	...	lbs.
The mean relative humidity	...	...	...	%
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	...	...	...	67
The total fall of rain from 18th to 24th March 1888	...	...	...	Inches.
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	Nil
The total fall from 1st January to 24th March 1888	...	...	...	0.29
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	4.89
	...	...	...	2.68

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast. p dew, = fog.

JOHN ELIOT,

Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, GOVT. OF INDIA;

Calcutta, the 26th March 1888.

Meteorological Report of the Province of Beng

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean to A.M. temperature.
ORISSA.	Pooree	Pooree	29.945	29.957	—	—	—	88.2	23rd Mar.	76.1	22nd Mar.	87.3	77.7	83.5	—	81.7
	Pooree	Gopalpore	29.904	29.954	—0.02	SSW	302.0	87.7	23rd	77.3	22nd	85.8	78.2	82.0	+2.4	83.9
	Pooree	False Point	29.942	29.964	+0.006	SSW	261.0	87.4	23rd	74.6	19, 20, 22 Mar.	86.2	75.4	80.8	+0.1	85.2
	Cuttack	Cuttack	29.874	29.966	+0.03	Calm	48.0	102.9	23rd	70.3	21st	97.3	76.0	86.7	+1.3	88.6
	Balasore	Balasore	29.803	29.952	+0.069	S	72.3	98.9	23rd	67.3	17th	93.7	71.7	82.7	+1.8	87.1
	South-West Midnapore	Saugor Island	29.830	29.902	+0.008	SSW	377.0	90.2	23rd	72.0	17th	87.0	77.3	82.4	+0.6	82.6
	South 24-Pergunnahs	Midnapore	29.806	29.956	+0.014	Variable	84.0	103.4	23rd	68.2	17th	90.9	70.0	84.8	+2.7	90.0
	24-Pergunnahs	Howrah	29.910	29.940	—0.04	SW	80.0	96.5	23rd	68.2	17th	92.7	72.7	82.7	+2.0	84.3
	Hooghly	Burdwan	29.833	29.933	+0.002	SW	64.8	101.7	23rd	66.4	20th, 21st Mar.	98.0	69.8	83.9	+2.1	87.7
	Burdwan	Bankoora	29.820	—	—	NW	55.0	102.1	23rd	67.6	20th	98.7	69.3	84.0	—	90.9
NORTH-WEST BENGAL.	Boorhcom	Raneegunge	29.804	29.910	+0.014	WSW	67.8	102.1	23rd	67.5	18th	99.0	69.3	84.2	+2.2	90.0
	West Burdwan	Berhampore	29.854	29.921	—0.008	SW	81.9	99.7	23rd	63.2	20th & 21st Mar.	95.7	66.9	81.3	+1.0	86.1
	Moorsheadabad	Krishnagpur	29.845	29.911	—	WSW	94.8	99.8	23rd	63.8	21st	96.2	69.0	84.6	—	88.4
	Nuddea	Jessore	29.806	29.940	+0.001	WSW	65.1	99.8	23rd	67.5	21st	90.0	72.6	84.3	+2.8	85.6
	Jessore	Chittagong	29.806	29.987	+0.015	SE	99.0	88.6	21st	67.1	21st	85.1	69.7	77.4	—0.4	81.4
	Chittagong	Chittagong Hill Tracts	Demagiri	—	—	—	—	—	—	—	—	—	—	—	—	—
	Chittagong Hill Tracts	Backergunge	29.934	29.950	+0.020	S	120.9	93.8	23rd	70.4	21st	90.8	72.8	81.8	+3.1	87.8
	Backergunge	Noakholly	29.923	29.967	+0.023	SSW	162.5	89.7	21st, 22nd Mar.	68.3	17th	86.4	72.0	79.2	+1.7	82.1
	Noakholly	Furteedpore	29.904	29.943	0	SW	94.0	91.0	19th, 20th Mar.	67.9	17th	87.9	70.8	87.4	+0.5	81.7
	Furteedpore	Dacca	29.910	29.942	+0.011	SSW	134.0	94.1	23rd	70.0	21st	90.6	75.1	81.9	+1.7	84.4
EAST BENGAL.	Dacca	Commillah	29.920	29.956	+0.019	S	123.2	91.8	23rd	65.4	17th	88.8	71.4	80.1	+0.7	81.3
	Commillah	Mymensingh	29.885	29.944	+0.008	ENE	126.8	89.5	22nd, 23rd Mar.	66.5	17th	87.9	69.9	78.9	+4.0	79.1
	Mymensingh	Bogra	29.834	29.898	—0.012	Easterly	95.4	98.8	23rd	64.4	17th	94.3	66.2	80.3	—	83.8
	Bogra	Pubna	29.873	29.920	+0.001	S	72.6	94.4	23rd	63.8	17th	91.0	67.0	79.0	+2.0	80.1
	Pubna	Rajshahye	29.848	29.919	+0.018	SW	69.8	96.4	23rd	58.7	21st	92.5	62.3	77.4	+1.4	86.1
	Rajshahye	Maldah	29.848	—	—	NW	79.7	96.1	23rd	57.5	19th	94.8	62.1	77.4	—	86.1
	Maldah	Dinapore	29.866	29.921	—0.004	FNE	104.0	94.6	23rd	59.9	17th	90.8	63.2	78.0	+1.3	84.6
	Dinapore	Rungpore	29.801	29.927	—0.009	R	76.0	92.0	23rd	62.5	19th	88.2	66.4	77.3	+2.4	79.1
	Rungpore	Julpigoree	29.840	29.932	—0.027	ESE	75.1	86.0	22nd	60.4	18th	84.0	64.9	74.5	+0.2	75.1
	Julpigoree	Cooch Behar	29.801	29.930	+0.006	Calm	31.6	93.2	23rd	60.7	17th, 18th Mar.	90.7	63.6	77.1	+0.6	81.1
NORTH BENGAL.	Cooch Behar	Darjeeling Hill Tracts	29.925	—	+0.012	Calm	93.0	67.2	23rd	41.0	18th	54.3	45.3	49.8	—1.8	50.1
	Darjeeling Hill Tracts	Purneah	29.801	29.930	+0.006	Calm	31.6	93.2	23rd	60.7	17th, 18th Mar.	90.7	63.6	77.1	+0.6	81.1
	Purneah	Mozufferpore	29.744	29.916	—0.004	ESE	113.0	89.2	23rd	62.9	20th	87.8	66.0	76.9	+0.8	75.1
	Mozufferpore	Durbhunga	29.652	29.881	—0.013	SE	170.1	93.9	22nd	52.6	18th	91.2	50.0	74.1	—1.3	84.1
	Durbhunga	Chumpran	29.705	29.901	—0.028	W,WNW	160.0	93.5	19th	61.4	19th	91.0	64.3	77.6	—1.0	86.1
	Chumpran	Saran	29.603	29.917	+0.055	W	308.8	99.4	23rd	66.0	17th	95.9	71.0	83.5	+5.5	86.1
	Saran	Shahabad	29.680	29.923	—0.001	W,NW	186.0	97.4	23rd	62.4	17th	93.8	64.8	79.3	+0.4	86.1
	Shahabad	Arrah	29.693	29.891	—0.020	W	125.3	98.9	22nd, 23rd Mar.	61.8	19th	95.8	64.3	80.1	+2.8	87.1
	Arrah	Gya	29.827	29.903	—0.018	W,NW	139.2	100.1	23rd	65.3	20th	90.3	68.6	84.5	+2.1	86.1
	Gya	Patna	29.729	29.914	—0.010	W,NW	100.1	98.0	23rd	61.8	19th	94.8	65.3	80.1	+2.0	86.1
SOUTH BENGAL.	Patna	South Bhagulpore	29.750	29.912	+0.004	NW	80.0	97.9	23rd	60.0	20th	94.3	64.0	79.2	+1.3	86.1
	South Bhagulpore	Monghyr	29.412	—	—0.006	W,NW	92.1	99.7	23rd	62.5	20th	96.4	65.6	81.0	+0.8	86.1
	Monghyr	Sonthal Pergunnahs	27.943	29.934	+0.029	NW	286.4	94.0	22nd, 23rd Mar.	63.3	17th	91.3	68.6	79.1	+5.0	86.1
	Sonthal Pergunnahs	Hazaribagh	27.767	29.806	—0.006	NW	166.8	98.5	22nd	61.9	17th	91.1	66.9	79.0	+3.9	86.1
	Hazaribagh	Lohardugga	29.173	—	+0.034	SSW	38.6	101.9	23rd	60.8	17th	92.2	65.3	85.4	+1.3	86.1
	Lohardugga	Manbhoom	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average of means of all stations in the Province for the corresponding months of the year. The humidity of the atmosphere is expressed as percentage, saturated air being represented by 100. A clear day is defined as a day in which the sun is visible for at least half the day. The numerical means or average of the rainfall in that district determined from the records sent in by the stations in the district ending in returns divided by the number of stations. A clear day is defined as a day in which the sun is visible for at least half the day.

for the week ending Friday, the 23rd of March 1888.

DISTRICT OBSERVATIONS.														Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.						Average number of rainy days.	Normal number of rainy days.				
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1887.								
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
70	1.0	Nil	0.03	0.18	0.03	0.60	-0.57	46.50	57.91	-11.44	0.5	0.5	Pooroo ...	Orissa.		
75	0	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpore ...			
73	1.4	0.08	—	—	—	—	—	—	—	—	—	—	False Point ...			
62	0.3	1.60	0.25	0.24	0.03	0.92	-0.29	48.23	54.33	-6.10	0.8	0.5	Cuttack ...	Cuttack ...	SOUTH-WEST BENGAL.	
57	0.1	0.58	0.36	0.31	0.62	0.87	-0.25	46.26	55.95	-9.67	0.7	0.5	Balasore ...	Balasore ...		
60	2.9	0.14	0.10	0.17	0.32	0.83	-0.31	62.92	64.82	-1.90	0.7	0.4	Sanger Island ...	South-West Midnapore ...		
42	0.1	Nil	Nil	0.37	0.70	1.63	-0.03	53.68	53.83	-0.15	0.0	0.5	Midnapore ...	Midnapore ...	SOUTH-WEST BENGAL.	
62	0	Nil	0.04	0.27	1.07	1.02	+0.05	44.28	51.56	-10.28	0.1	0.6	Calcutta ...	Howrah ...		
34	0	Nil	Nil	0.17	0.73	0.86	-0.13	47.98	48.61	-0.63	0.0	0.5	Burdwan ...	Burdwan ...		
24	0	Nil	Nil	0.26	0.12	0.82	-0.70	51.57	53.83	-2.26	0.0	0.7	Bankura ...	Bankura ...	SOUTH-WEST BENGAL.	
18	0	Nil	Nil	0.04	0.35	0.41	-0.06	49.09	53.86	-4.77	0.0	0.3	Ranagunge ...	Beerbhoom ...		
43	0	Nil	Nil	0.10	0.41	0.50	-0.50	60.53	51.11	+9.42	0.0	0.4	Borhanpore ...	Moorshedabad ...		
40	0.1	Nil	Nil	0.26	2.11	0.94	+1.17	46.56	51.46	-4.90	0.0	0.5	Krishnaghar ...	Nulda ...	SOUTH-WEST BENGAL.	
67	0.4	Nil	Nil	0.45	1.84	1.35	+0.49	45.26	56.37	-11.11	0.0	0.8	Jessore ...	Jessore ...		
76	5.4	0.60	0.57	0.46	1.37	1.34	+0.03	102.44	116.72	-14.28	1.0	0.0	Chittagong ...	Chittagong ...		
73	2.5	Nil	0.11	0.39	1.62	1.39	+0.23	64.02	89.73	-16.71	0.8	0.8	Demagiri ...	Chittagong Hill Tracts	EAST BENGAL.	
72	3.9	0.20	0.23	0.58	3.74	2.33	+1.41	78.53	113.18	-34.65	1.0	1.0	Barrisal ...	Backergunge ...		
75	0.3	Nil	Nil	0.61	3.81	1.73	+2.08	41.51	50.35	-17.81	0.0	1.2	Nonkholly ...	Nonkholly ...		
73	2.1	Nil	Nil	0.55	4.56	1.45	+3.11	47.15	63.73	-16.58	0.0	0.9	Furcedpore ...	Furcedpore ...	EAST BENGAL.	
74	2.3	0.14	1.21	1.27	5.73	2.05	+3.68	50.18	75.13	-24.95	0.8	1.4	Dacca ...	Dacca ...		
76	3.0	Nil	0.12	0.32	2.09	1.17	+0.62	63.57	60.82	-6.25	0.2	0.8	Commallah ...	Commallah ...		
55	0	Nil	Nil	0.25	0.45	0.65	+0.22	61.39	58.69	+2.70	0.0	0.5	Mymensingh ...	Mymensingh ...	NORTH BENGAL.	
68	0.0	Nil	Nil	0.20	1.76	0.90	+0.86	47.68	55.81	-8.13	0.0	0.5	Bogra ...	Bogra ...		
41	0	Nil	Nil	0.10	1.20	0.45	+0.75	51.05	55.46	-4.41	0.0	0.4	Serajunga ...	Pubna ...		
33	0	Nil	Nil	0.14	0.17	0.35	-0.18	47.02	55.83	-8.81	0.0	0.4	Rampore Beaulah ...	Rajshahye ...	NORTH BENGAL.	
48	0	Nil	Nil	0.11	0.54	0.34	+0.20	60.03	50.86	+12.97	0.0	0.3	Maldah ...	Maldah ...		
71	0	Nil	Nil	0.42	2.37	0.84	+1.63	83.40	74.74	+8.72	0.0	0.6	Dinapore ...	Dinapore ...		
61	0.7	Nil	0.06	0.30	2.34	0.76	+1.58	120.37	111.70	+8.67	0.2	0.5	Rangpore ...	Rangpore ...	NORTH BENGAL.	
62	0.0	Nil	0.05	0.19	2.82	0.73	+2.09	121.65	122.88	-0.93	0.7	0.5	Jalpaigore ...	Jalpaigore ...		
56	0	Nil	Nil	0.07	0.07	0.28	+0.00	66.33	58.80	+7.47	0.0	0.3	Darjeeling ...	Darjeeling Hill Tracts		
50	0	Nil	Nil	0.08	0.22	0.37	-0.15	47.57	44.12	+3.45	0.0	0.3	Parneah ...	Parneah ...	NORTH BENGAL.	
57	1.0	Nil	Nil	0.03	0.59	0.23	+0.36	50.06	45.04	+5.02	0.0	0.2	Mozufferpore ...	Mozufferpore ...		
58	0	Nil	Nil	0.04	0.15	0.33	-0.17	49.97	47.28	+2.69	0.0	0.2	Darbhanga ...	Darbhanga ...		
19	0	Nil	Nil	0.03	0.12	0.20	-0.08	40.37	43.75	-3.38	0.0	0.1	Motihari ...	Chunparan ...	NORTH BENGAL.	
23	0.1	Nil	Nil	0.06	0.02	0.34	-0.32	38.65	41.12	-2.47	0.0	0.2	Chupra ...	Saran ...		
23	0	Nil	Nil	0.06	0.02	0.34	-0.32	38.65	41.12	-2.47	0.0	0.2	Dehree ...	Dehree ...		
33	0.0	Nil	Nil	0.08	0.04	0.32	-0.28	39.34	42.48	-3.14	0.0	0.3	Buxar ...	Shahabad ...	NORTH BENGAL.	
33	0.0	Nil	Nil	0.07	Nil	0.24	-0.24	36.81	42.20	-5.45	0.0	0.3	Arrah ...	Arrah ...		
33	0.0	Nil	Nil	0.08	0.04	0.32	-0.28	39.34	42.48	-3.14	0.0	0.3	Gya ...	Gya ...		
33	0.0	Nil	Nil	0.07	Nil	0.24	-0.24	36.81	42.20	-5.45	0.0	0.3	Bankipore ...	Patna ...	NORTH BENGAL.	
33	0.0	Nil	Nil	0.08	Nil	0.24	-0.24	36.81	42.20	-5.45	0.0	0.3	Bhagulpore ...	South Bhagulpore ...		
33	0.0	Nil	Nil	0.08	Nil	0.24	-0.24	36.81	42.20	-5.45	0.0	0.3	Monghyr ...	Monghyr ...		
33	0.0	Nil	Nil	0.11	0.25	0.46	-0.21	53.41	51.30	+1.91	0.0	0.3	Doomka ...	Sonthal Pergunnahs ...	NORTH BENGAL.	
37	0.4	Nil	Nil	0.09	0.03	0.88	-0.88	47.84	52.04	-4.20	0.0	0.3	Hazaribagh ...	Hazaribagh ...		
37	0.4	Nil	Nil	0.14	0.18	0.73	-0.55	46.45	49.05	-2.60	0.0	0.4	Ranchi ...	Manbhoom ...		
38	0	Nil	Nil	0.11	Nil	0.99	-0.99	53.06	53.24	-0.21	0.0	0.6	Chyebassa ...	Singbhoom ...	CHOTA NAGPORE.	

When the mean for the week is less than the corresponding normal mean, and positive when greater.
 When the mean for the week is less than the corresponding normal mean, and positive when greater.
 When the mean for the week is less than the corresponding normal mean, and positive when greater.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 23rd of March 1888.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL.		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1887.	Average rainfall from 15th May to date.	
			Saturday, 17th March.	Sunday, 18th March.	Monday, 19th March.	Tuesday, 20th March.	Wednesday, 21st March.	Thursday, 22nd March.	Friday, 23rd March.	Number of rainy days.	of Rainfall week.					
N1884	Pooree	Pooree	0.04							Nil	Nil	Nil	0.41	30.49	53.34	
		Khurdah	0.04							1	0.04	0.04	0.62	30.63	53.78	
		Bampur								Nil	Nil	0.56	0.56	30.93	53.42	
		False Point	0.08							1	0.08	0.08	0.80	70.60	60.00	
		Gop								Nil	Nil	Nil	?	30.22	?	
	Cuttack	Pipli	0.43							1	0.43	0.46	?	?	?	?
		Jarabingspore								Nil	Nil	Nil	0.70	33.08	40.21	
		Bunk								Nil	Nil	0.05	1.21	43.24	54.33	
		Cuttack		0.13						1	0.13	2.13	1.05	51.45	58.35	
		Kendrapara	0.06	0.31						2	0.10	0.74	0.70	58.70	52.31	
Balasore	Jajpur		0.23						1	0.23	0.23	0.92	50.89	54.41		
	Dharmasalla								Nil	Nil	Nil	?	44.40	?		
	Salipore								Nil	Nil	Nil	?	51.31	?		
	Chandbali								Nil	Nil	Nil	0.03	43.09	50.12		
	Bhuddruck	1.07							1	0.07	1.50	0.81	48.30	50.21		
	Sorah	0.30							1	0.30	0.30	1.15	41.50	54.51		
	Balasore	0.50							1	0.50	0.50	0.94	55.74	60.53		
	Jellsore								Nil	Nil	0.16	0.75	40.65	51.74		
	Baripodah	0.31							1	0.31	0.31	0.65	46.37	50.40		
	Midnapore	Contai	0.17							1	0.17	0.37	0.62	52.05	53.87	
Saugor Island		0.14							1	0.14	0.29	0.62	74.18	68.00		
Tumlook									Nil	Nil	0.20	1.41	53.63	55.60		
Midnapore									Nil	Nil	0.20	1.24	49.12	51.27		
Ghatol									Nil	Nil	1.00	1.24	58.25	56.60		
Kukrahady									Nil	Nil	1.02	?	58.42	?		
Horia									Nil	Nil	0.16	?	45.43	?		
Bhagwanpore									Nil	Nil	0.49	?	45.06	?		
Garbeta									Nil	Nil	0.46	?	51.97	?		
24-Pergunnahs		Diamond Har- bour								Nil	Nil	0.30	1.07	61.65	61.30	
	Canning Town								Nil	Nil	0.31	?	51.32	?		
	Alipore Jail								Nil	Nil	2.65	1.19	57.20	58.38		
	Barackpore								Nil	Nil	0.54	1.20	43.04	62.08		
	Dum-Dum								Nil	Nil	1.39	1.19	45.09	64.39		
	Barasat								Nil	Nil	1.17	0.94	43.13	62.71		
	Buseerhat	0.12							1	0.42	1.08	1.13	54.10	57.09		
	Howrah								Nil	Nil	1.19	1.08	40.94	53.64		
	Mohesra								Nil	Nil	0.71	0.75	41.74	55.29		
	(Ouloberiah.)															
Hoozly	Serampore								Nil	Nil	0.58	0.77	36.99	53.03		
	Hoozly								Nil	Nil	0.68	0.96	42.37	50.70		
	Jehanabad								Nil	Nil	0.57	0.82	57.73	54.17		
	Burdwan								Nil	Nil	1.13	0.91	40.31	40.05		
	Burdwan								Nil	Nil	1.02	1.02	47.37	40.30		
	Cutwa								Nil	Nil	0.50	0.65	56.43	40.24		
	Ranagunga								Nil	Nil	0.11	0.49	47.19	50.88		
	Mankur								Nil	Nil	0.97	?	41.60	?		
	Bankura								Nil	Nil	Nil	1.16	45.37	53.05		
	Bishenpore								Nil	Nil	0.35	0.91	57.37	52.36		
Bankura	Malara								Nil	Nil	0.12	0.48	59.37	50.82		
	Khatra								Nil	Nil	Nil	0.71	5.12	68.05		
	Indas								Nil	Nil	0.20	?	42.04	?		
	Kotalpore								Nil	Nil	Nil	?	40.10	?		
	Anda								Nil	Nil	Nil	?	39.40	?		
	Gangapalghati								Nil	Nil	Nil	?	50.40	?		
	Rasore								Nil	Nil	Nil	?	53.64	?		
	Sonamukhi								Nil	Nil	0.16	?	38.00	?		
	Beerbhoom								Nil	Nil	1.25	0.47	51.83	55.57		
	Hetampur								Nil	Nil	Nil	0.21	51.87	50.13		
Nuddes	Rampore Haut								Nil	Nil	Nil	0.48	45.40	52.65		
	Bolpore								Nil	Nil	Nil	?	42.45	?		
	Ranaghat								Nil	Nil	1.40	0.00	42.54	49.39		
	Kishnagar								Nil	Nil	0.72	0.77	47.43	47.43		
	Chocadanga								Nil	Nil	1.84	0.94	45.28	53.53		
	Meherpore								Nil	Nil	2.78	1.04	51.72	49.30		
	Koushtea								Nil	Nil	3.73	1.08	48.72	57.00		
	Khoolna								Nil	Nil	0.06	1.40	40.93	58.94		
	Bacrinat								Nil	Nil	0.90	1.17	54.94	54.94		
	Khoolna								Nil	Nil	3.21	1.30	48.21	58.03		
Jesore	Narail								Nil	Nil	2.00	1.27	20.78	40.97		
	Jessore								Nil	Nil	1.00	1.56	44.11	47.48		
	Jhendah								Nil	Nil	3.01	1.53	47.03	50.58		
	Magoorah								Nil	Nil	2.76	1.33	35.20	51.89		
	Bougong								Nil	Nil	0.82	1.10	58.84	59.17		
	Moorshedabad								Nil	Nil	0.23	0.42	48.07	57.45		
	Berhampore								Nil	Nil	1.20	0.64	57.94	52.07		
	Lalbah								Nil	Nil	0.55	0.40	70.39	60.04		
	Azamgungo								Nil	Nil	0.38	0.62	60.78	51.93		
	Jamgungo								Nil	Nil	0.23	0.41	65.47	49.21		
Chittagong	Lalgola								Nil	Nil	0.07	0.51	62.69	51.50		
	Akhryanj								Nil	Nil	1.01	?	51.45	?		
	Patkubari								Nil	Nil	0.70	?	?	?		
	Cox's Bazar	0.37							1	0.37	1.17	1.81	131.79	131.79		
	Chittagong	0.36							1	0.36	1.55	1.57	80.15	47.05		
	Antubdia	0.10							1	0.10	1.05	?	79.48	?		
	Satkanya	0.10							1	0.10	0.10	?	65.61	?		
	Chittagone Hill Tracts.								Nil	Nil	3.47	1.96	68.01	50.97		
	Rangamati								Nil	Nil	1.15	1.81	65.71	51.94		
	Backergunge								Nil	Nil						
Backergunge	Patnakhally	0.12	0.10						2	0.22	1.37	0.50	70.19	50.97		
	Porosopore								Nil	Nil	1.14	1.18	42.91	71.39		
	Burrial								Nil	Nil	1.35	1.44	51.39	71.39		
	Bhola	0.23							1	0.23	1.48	1.47	60.55	54.39		

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 23rd of March 1888—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 18th May 1887.	Average rainfall from 18th May to date.
			Sunday, 17th March.	Sunday, 18th March.	Monday, 19th March.	Tuesday, 20th March.	Wednesday, 21st March.	Thursday, 22nd March.	Friday, 23rd March.	Number of rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Gournadi	Gournadi ...	...	...	...	...	...	...	...	Nil	Nil	1.08	?	42.43	?
		Bauphal ...	0.30	...	...	...	...	...	...	1	0.30	0.91	?	63.07	?
		Nonkholly ...	0.29	...	...	...	...	...	...	1	0.29	2.85	2.44	77.03	113.06
		Fenny ...	0.16	...	...	...	...	...	...	1	0.16	4.62	2.26	79.49	119.96
	Furzedpore	Harishpore ...	...	...	...	...	...	...	...	Nil	Nil	1.29	?	77.07	?
		Ramganj ...	...	...	...	...	...	...	...	Nil	Nil	6.11	?	69.46	?
		Madaripore ...	...	...	...	...	...	...	...	Nil	Nil	1.98	1.90	34.10	59.76
		Furzedpore ...	...	...	...	...	...	...	...	Nil	Nil	5.53	1.97	45.14	60.92
	Dacca	Goulundo ...	...	...	...	...	...	...	...	Nil	Nil	3.82	1.32	41.24	59.71
		Munshigunge ...	...	...	...	...	...	...	...	Nil	Nil	4.76	2.78	46.37	76.91
		Dacca ...	...	...	...	...	...	...	...	Nil	Nil	1.32	1.71	53.23	82.84
		Naraingunge ...	...	...	...	...	...	...	...	Nil	Nil	6.09	0.30	50.09	63.09
	Hill Tipperah	Manickgunge ...	...	...	...	...	...	...	...	Nil	Nil	2.36	0.82	38.24	53.38
		Joydebpore ...	...	...	...	...	...	...	...	Nil	Nil	3.79	?	53.72	?
		Agartola ...	2.22	...	...	...	...	...	...	1	2.22	7.00	2.88	52.21	66.09
		Comilla ...	0.23	...	...	...	...	...	...	1	0.23	3.57	2.49	53.07	81.14
	Mymensingh	Chandpore ...	...	...	...	...	...	...	...	Nil	Nil	5.55	1.99	46.47	84.73
		Brahmunberia ...	2.30	...	...	...	...	...	...	1	2.30	6.81	3.23	48.31	67.86
		Ramchandrapore ...	...	...	...	...	...	...	...	Nil	Nil	3.16	?	42.66	?
		Nasirnagar ...	0.25	1.10	...	...	...	...	...	2	1.35	3.94	?	35.83	?
	Mymensingh	Haadkandi ...	...	...	...	...	...	...	...	Nil	Nil	2.23	?	39.70	?
		Kasba ...	...	...	...	...	...	...	...	Nil	Nil	8.69	?	52.76	?
		Laksham ...	...	...	...	...	...	...	...	Nil	Nil	3.10	?	35.40	?
		Kishoregunge ...	0.02	...	...	...	...	...	...	1	0.02	2.41	1.86	61.18	73.12
	Pubna	Atin (Tangail) ...	...	...	...	...	...	...	...	Nil	Nil	1.31	0.99	4.53	58.50
		Mymensingh ...	...	...	...	...	...	...	...	Nil	Nil	1.99	1.28	71.45	76.56
		Jamalpore ...	...	...	...	...	...	...	...	Nil	Nil	0.65	0.87	62.51	67.31
		Netrokona ...	...	...	...	...	...	...	...	Nil	Nil	4.00	0.88	78.58	73.56
	Bogra	Subornakhally ...	...	...	...	...	...	...	...	Nil	Nil	0.96	?	53.65	?
		Durgapore ...	0.10	...	...	...	...	...	...	1	0.10	3.56	?	119.47	?
		Deuunganj ...	...	...	...	...	...	...	...	Nil	Nil	1.20	?	81.85	?
		Pubna ...	...	...	...	...	...	...	...	Nil	Nil	2.12	1.12	41.57	67.06
	Bogra	Beragunge ...	...	...	...	...	...	...	...	Nil	Nil	1.40	0.08	53.74	54.04
		Sherpore ...	...	...	...	...	...	...	...	Nil	Nil	0.55	0.96	48.84	60.09
		Nowkhilla ...	...	...	...	...	...	...	...	Nil	Nil	0.53	0.61	60.14	66.78
		Bogra ...	...	...	...	...	...	...	...	Nil	Nil	0.16	0.61	67.57	61.71
	Rajshahve	Panchbibi ...	...	...	...	...	...	...	...	Nil	Nil	0.05	0.48	69.00	55.72
		Benulash ...	...	...	...	...	...	...	...	Nil	Nil	0.39	0.45	59.19	54.18
		Natore ...	...	...	...	...	...	...	...	Nil	Nil	1.40	0.44	59.19	50.70
		Naogaon ...	...	...	...	...	...	...	...	Nil	Nil	?	?	62.82	?
	Maldah	Lalpor ...	...	...	...	...	...	...	...	Nil	Nil	0.64	?	57.32	?
		Manda ...	...	...	...	...	...	...	...	Nil	Nil	0.23	?	67.92	?
		Maldah ...	...	...	...	...	...	...	...	Nil	Nil	0.01	0.50	49.81	52.81
		Chanchal ...	...	...	...	...	...	...	...	Nil	Nil	0.23	0.21	44.16	58.96
	Dinagore	Gajol ...	...	...	...	...	...	...	...	Nil	Nil	0.50	?	61.59	?
		Sibganj ...	...	...	...	...	...	...	...	Nil	Nil	0.03	?	53.08	?
		Mchadebpore ...	...	...	...	...	...	...	...	Nil	Nil	0.04	0.25	62.52	58.00
		Churamon ...	...	...	...	...	...	...	...	Nil	Nil	0.48	0.17	59.31	53.13
	Rungpore	Bakugunge ...	...	...	...	...	...	...	...	Nil	Nil	0.53	0.53	74.51	61.76
		Dinagore ...	...	...	...	...	...	...	...	Nil	Nil	0.66	0.70	99.00	99.00
		Balooghhat ...	...	...	...	...	...	...	...	Nil	Nil	0.46	0.25	62.37	61.66
		Bhawanigunge (Gyabanda) ...	...	...	...	...	...	...	...	Nil	Nil	1.67	0.91	69.23	62.91
	Julpigore	Ruhpore ...	...	...	...	...	...	...	...	Nil	Nil	3.08	0.87	83.69	73.89
		Kurigram ...	...	...	...	...	...	...	...	Nil	Nil	2.30	0.97	77.05	75.00
		Radokra ...	...	...	...	...	...	...	...	Nil	Nil	2.39	0.61	163.83	84.47
		Nilphamari ...	...	...	...	...	...	...	...	Nil	Nil	2.77	?	61.26	?
	Cooch Behar	Ulipore ...	...	...	...	...	...	...	...	Nil	Nil	3.35	0.83	129.06	117.54
		Julpigore ...	...	...	...	...	...	...	...	Nil	Nil	1.77	?	142.01	?
		Alipore Doar ...	0.24	...	...	...	...	...	...	Nil	0.24	4.18	?	147.18	?
		Fallacotta ...	...	...	...	...	...	...	...	Nil	Nil	2.22	?	98.97	?
	Darjeeling Hill.	Debinig ...	...	...	...	...	...	...	...	Nil	Nil	0.76	?	144.36	95.82
		Dinhatia ...	...	...	...	...	...	...	...	Nil	Nil	0.30	0.70	125.02	119.54
		Cooch Behar ...	0.30	...	...	...	...	...	...	1	0.30	2.39	0.51	123.06	107.33
		Mickligunge ...	...	...	...	...	...	...	...	Nil	Nil	1.40	0.80	119.37	118.14
	Purneah	Matabhanga ...	...	...	...	...	...	...	...	Nil	Nil	2.15	?	119.37	118.14
		Buxa ...	...	...	0.02	...	...	0.13	...	2	0.15	5.55	1.43	175.90	194.84
		Silliguri ...	...	...	...	...	...	...	...	Nil	Nil	2.93	0.28	119.97	103.78
		Darjeeling ...	...	...	...	...	...	...	...	Nil	Nil	0.91	0.88	116.65	111.66
	North Bhagalpore	Kalimpong ...	...	...	0.04	...	...	...	...	1	0.04	1.82	0.31	83.63	81.07
		Kissengunge ...	...	...	...	...	...	...	...	Nil	Nil	0.65	0.33	85.20	70.38
		Arram ...	...	...	...	...	...	...	...	Nil	Nil	1.50	0.35	68.38	64.34
		Purneah ...	...	...	...	...	...	...	...	Nil	Nil	0.65	0.28	67.47	61.61
	Durbhanga	Gondwara ...	...	...	...	...	...	...	...	Nil	Nil	0.12	?	?	?
		Balarampore ...	...	...	...	...	...	...	...	Nil	Nil	1.1	?	68.20	?
		Hatiari ...	...	...	...	...	...	...	...	Nil	Nil	1.75	?	83.94	?
		Kaliaganj ...	...	...	...	...	...	...	...	Nil	Nil	1.1	?	70.29	?
	Mounserpore	Madampore ...	...	...	...	...	...	...	...	Nil	Nil	1.24	0.21	58.58	50.47
		Boopool ...	...	...	...	...	...	...	...	Nil	Nil	0.83	0.26	55.22	46.58
		Protabganj ...	...	...	...	...	...	...	...	Nil	Nil	0.83	?	67.15	?
		Tajpore ...	...	...	...	...	...	...	...	Nil	Nil	0.19	0.19	44.80	43.93
	Mounserpore	Jurongunge ...	...	...	...	...	...	...	...	Nil	Nil	1.95	0.10	53.92	40.42
		Madhubani ...	...	...	...	...	...	...	...	Nil	Nil	0.63	0.35	58.23	43.36
		Nakhera ...	...	...	...	...	...	...	...	Nil	Nil	0.90	?	53.19	?
		Kochera ...	...	...	...	...	...	...	...	Nil	Nil	?	?	40.52	?
	Mounserpore	Sitamarhi ...	...	...	...	...	...	...	...	Nil	Nil	0.40	0.55	60.73	42.53
		Mounserpore ...	...	...	...	...	...	...	...	Nil	Nil	0.23	0.81	44.13	40.51
		Hajipore ...	...	...	...	...	...	...	...	Nil	Nil	0.03	0.24	37.86	43.63
		Pura ...	...	...	...	...	...	...	...	Nil	Nil	?	?	41.61	?
	Mounserpore	Madhus ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Nakhera ...	...	...	...	...	...	...	...	Nil	Nil	0.50	?	?	?
		Puri ...	...	...	...	...	...	...	...	Nil	Nil	0.20	?	?	?
		Mounserpore ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
	Mounserpore	Mounserpore ...	...	...	...	...	...	...	...	Nil	Nil	?	0.34	59.80	44.44
		Mounserpore ...	...	...	...	...	...	...	...	Nil	Nil	0.30	?	40.12	40.11
		Mounserpore ...	...	...	...	...	...	...	...	Nil	Nil	0.23	?	59.09	?
		Mounserpore ...	...	...	...	...	...	...	...	Nil	Nil	0.14	?	36.73	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 23rd of March 1888.—*concl.*

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1887.	Average rainfall from 15th May to date.
			Saturday, 17th March.	Sunday, 18th March.	Monday, 19th March.	Tuesday, 20th March.	Wednesday, 21st March.	Thursday, 22nd March.	Friday, 23rd March.	Number of rainy days.	of Rainfall week.				
NORTH BHAR.	Saran	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.07	0.05	42.65	44.81
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.14	39.74	45.03
SOUTH BHAR.	Shahabad	Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.28	0.27	88.70	41.90
		Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.25	34.73	39.40
		Dumra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	?	39.76	?
		Rhuboosh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.39	41.88	41.87
		Bassorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	0.23	36.52	41.58
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.29	41.34	40.98
		Mohania ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Gya	Aurangabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.33	29.90	43.84
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	0.27	43.87	43.83
		Nowalsh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.07	0.35	30.61	41.09
		Jehansbad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.30	46.77	41.31
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41.13	?
		Indanagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	23.01	?
		Sherrghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36.45	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Patna	Pakri Barawan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	22.24	?
		Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.27	37.17	43.02
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.19	38.44	42.11
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.27	35.54	43.04
		Harri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.26	36.06	40.11
		Rickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40.05	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34.54	?
	Monghyr	Begoonerai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.10	49.68	40.31
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.23	47.24	47.20
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.35	40.02	44.13
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42.03	?
	South Bhagal-pore	Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	24.58	?
		Bhagalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.23	41.23	43.13
		Baika ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.36	39.96	44.07
		Kulung ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43.45	?
	Sonthal Per-gumna	Rajmahal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.27	57.98	52.40
		Godan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.35	40.56	45.75
		Pasour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.34	0.35	74.05	54.04
		Nya Doozha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.33	0.35	40.04	55.52
		Dookhur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.03	0.35	47.89	51.43
		Jamuna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.19	0.61	40.34	50.07
		Simra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	?	?
		Nantah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.02	?	39.81	?
CHUTIA NAG-PUR.	Hazribach	Pachamba ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.65	42.00	40.05
		(Giridi) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.07	0.63	47.58	49.55
		Hazribach ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	1.24	41.27	47.03
		Sontagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.85	49.43	49.43
		Mehudi Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.42	58.60	64.05
		Jhoomrah Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39.70	?
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	?	50.10	?
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72.46	?
		Kamghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51.54	?
	Lohardugga	Lohardugga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.42	?	57.58	?
		Kauchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.03	54.38	53.95
		Palanow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.56	50.71	45.13
		Stilli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Hosseinabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.09	?	35.30	?
		Gareah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54.85	?
	Singbhoom	Chyenassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.99	53.03	53.28
		Chakradhar-pore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.05	?	41.27	?
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55.79	?
		Banarayura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41.15	?
	Manbhoom	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.38	46.53	51.01
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.36	0.45	29.79	47.10
		Raghunath-pore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38.64	?
		Barraabhoom ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43.31	?
		Jhaida ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	?	?	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 27th March 1888.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 23RD MARCH 1888.

THERE is little that calls for notice in the meteorology of the past week. The barometer was low at the commencement of the week, but was beginning to rise rapidly, and the showery, thundery weather of the previous week ceased on the 17th or 18th over the whole province. Thunder-storms occurred on the 17th in Orissa and the eastern and southern districts of East Bengal, and one or two local showers of little importance on the 18th. After that date the weather was fine throughout the week. The barometer rose until the 20th, when it was a tenth of an inch higher than on the 16th. On the 20th temperature commenced to increase rapidly in the interior, and the westerly winds down the Gangetic plain extended further and further eastwards into Bengal. These changes accompanied a rapid decrease of pressure during the remainder of the week, which varied in amount from $\cdot 12''$ to $\cdot 2''$. On the 23rd the sea winds at the head of the Bay began to increase in strength, and slightly decreased the temperature and increased the humidity in South Bengal. Hot dry weather with clear skies prevailed over nearly the whole of the province from the 18th to the end of the week.

Pressure.—The barometric changes of the past week formed a single oscillation of the kind that are due mainly to increasing heat and temperature in Northern India. The barometer rose about a tenth of an inch from the 16th to the 20th and fell a sixth of an inch on the average of the whole province between the 20th and 23rd. The mean pressure of the week varied little from the normal, and was slightly in excess in all districts except Central Bengal, and Central and South Behar, where there was a small deficiency (nowhere exceeding $0\cdot 2''$).

Temperature.—The temperature changes of the week corresponded closely to the pressure changes. The mean daily temperature was steady or increased slowly during the first-half of the week, but afterwards increased much more rapidly. The increase was in many cases shown more largely in the night than in the day temperatures. The highest temperatures of the week were in the great majority of cases recorded on the 23rd. The hottest part of the province during the past week, as defined by maxima temperatures exceeding $101\frac{1}{2}^{\circ}$, included the stations of Cuttack, Midnapore, Burdwan, Bankoorah and Ranigunj. The mean temperature of the week, both night and day, was in excess. The mean daily temperature was on the average 2° in excess in South-West Bengal, Chutia Nagpur and South Behar; $1\frac{1}{2}^{\circ}$ in Orissa, East and North Bengal, and was normal only in North Behar.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 23rd March 1888.

	Normal mean maxi- mum tem- perature for the week ending 23rd March.	Actual mean maxi- mum tem- perature for the week ending 23rd March 1888.	Variation of actual mean from the nor- mal.	Normal mean mini- mum tem- perature for the week ending 23rd March.	Actual mean mini- mum tem- perature for the week ending 23rd March 1888.	Variation of actual mean from the nor- mal.	Normal mean daily tempera- ture for the week ending 23rd March.	Actual mean daily tempera- ture for the week ending 23rd March 1888.	Variation of actual mean from the nor- mal.
Cuttack	96.8	97.3	+0.5	73.9	76.0	+2.1	85.4	86.7	+1.3
Calcutta	90.8	92.7	+1.9	70.6	72.7	+2.1	80.7	82.7	+2.0
Dacca	91.0	90.6	-0.4	69.4	73.1	+3.7	80.2	81.9	+1.7
Burdwan	94.1	98.0	+3.9	69.5	69.8	+0.3	81.8	83.9	+2.1
Patna	92.9	94.8	+1.9	63.3	65.3	+2.0	78.1	80.4	+2.3
Gya	95.1	96.3	+1.2	65.6	68.6	+3.0	80.4	82.5	+2.1
Purneah	92.6	90.7	-1.9	64.3	63.6	-0.7	76.5	77.1	+0.6
Hazaribagh	89.7	91.5	+1.8	64.4	66.6	+2.2	77.1	79.1	+2.0
Darjeeling	88.7	84.8	-3.9	44.4	45.3	+0.9	51.6	49.8	-1.8

Rainfall.—The only important rainfall of the week occurred as local thunder-showers on the 17th and 18th in Orissa and the east and south-east districts of East Bengal. Orissa received an average of $0\cdot 34$ inch ($\cdot 09$ inch more than the average rainfall of the week) and East Bengal an average of $\cdot 29$ inch, almost exactly half the normal mean rainfall of the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province the week ending Friday the 23rd of March 1888 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1887.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	102.9	67.3	90.0	53.8	82.9	+1.4	0.34	0.23	+0.09	0.7	0.6	+0.1	0.44	0.81	40.85	55.92
South-West Bengal ..	103.4	63.2	95.9	70.8	83.4	+1.9	0.02	0.25	-0.23	0.1	0.5	-0.4	0.98	0.92	49.85	54.18
East Bengal	94.1	65.4	88.2	71.4	79.8	+1.6	0.29	0.59	-0.30	0.4	0.9	-0.5	3.20	1.69	61.23	78.31
North Bengal	98.8	57.5	90.8	64.6	77.7	+1.5	0.01	0.25	-0.24	0.1	0.5	-0.4	1.33	0.61	75.58	71.36
North Behar	93.9	52.6	90.2	62.7	76.4	-0.2	Nil	0.05	-0.05	0.0	0.3	-0.3	0.50	0.2	53.07	40.23
South Behar	100.1	60.0	95.5	66.2	80.8	+2.1	Nil	0.08	-0.08	0.0	0.3	-0.3	0.08	0.31	42.85	44.78
Cooch Nagpur	94.0	61.9	91.3	66.8	79.1	+2.3	Nil	0.12	-0.12	0.0	0.4	-0.4	0.05	0.83	46.58	50.07

* Chyabassa not included.

METEOROLOGICAL OFFICE, BENGAL;

J. ELIOT,

The 27th March 1888.

for Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 18th to 24th March 1888.

MONTH.	Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1888.		°	°	°	°	°	Inches.	°	%	Inches.
March	18th	82.8	95.0	21.2	73.8	74.8	.756	70.8	67	Nil
"	19th	82.9	95.0	21.0	74.0	75.5	.784	71.9	69	"
"	20th	83.3	96.0	21.3	74.7	76.7	.881	73.7	73	"
"	21st	83.6	97.6	25.6	72.0	74.1	.716	69.2	62	"
"	22nd	85.1	99.0	24.2	74.8	73.8	.683	67.9	57	"
"	23rd	85.9	100.2	26.6	73.6	70.1	.525	60.3	42	"
"	24th	84.8	101.2	28.6	72.6	74.7	.725	69.6	61	"

The mean temperature of the seven days ... 84.1

The extreme variation of temperature ... 29.2

The maximum temperature ... 101.2

The mean relative humidity ... 62

Inches.

The total fall of rain from 18th to 24th March 1888 ... Nil

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;

JOHN ELIOT,

The 26th March 1888.

Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE birth and death returns of the principal Municipalities in Bengal, for the week ending 10th March 1888, exhibit the following results :—

1. That births were registered in the above Municipalities at the rates of 19 per 1,000 of population, as opposed to very nearly the same proportion, viz. 19·3 per 1,000 in the preceding week ending 3rd March, and deaths at 26·1 against 21·7 per 1,000, indicating a considerable improvement in their registration.

2. That the undermentioned Municipalities returned the highest proportions of births and deaths :—

Births.			Deaths.		
		Ratio per mille.			Ratio per mille.
Beaulcah	...	49·9	Suburbs of Calcutta	...	54·8
Monghyr	...	31·6	Serampore	...	43·2
Durbhanga	...	29·9	Beaulcah	...	34·2
			Durbhanga	...	31·5
			Puri	...	31·5
			Purneah	...	31·1
			Comillah	...	30·8

3. That the rates of mortality from the principal diseases, contrasted with the similar information for the preceding week, stood as follows :—

						Ratio per mille during the weeks ending—	
						10th March 1888.	3rd March 1888.
Cholera	...	...	...	...	...	5·1	3·6
Small-pox	...	...	...	...	...	1	1
Fever	...	...	...	...	...	10·3	8·7
Bowel-complaints	...	...	...	...	...	2·8	2·9
Injury	...	...	...	...	...	2	2
Other causes	...	...	...	...	...	7·6	6·2

indicating chiefly that the mortality from cholera, fever and the maladies classed under the head of "Other causes," had increased to a noticeable extent.

4. That of the abovementioned diseases, cholera, fever and "other causes" proved conspicuously fatal in the following Municipalities, the other diseases exhibiting no special local severity :—

Cholera.		Fever.		Other causes.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Suburbs of Calcutta	20·5	Beaulcah	28·9	Serampore	17·7
Narainganj	16·6	Kishnaghur	24·6	Puri	16·8
Serampore	7·8	Hughli	22·8	Suburbs of Calcutta	11·8
Howah	5·7	Purneah	20·8		

5. That the death-rates in relation to Sex, Class and Age were returned at the rates indicated below :—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	28·5	Christians	21·7	Under 1 year	205·3
Females	23·5	Hindus	24·7	1 and under 5 years	28·0
Ratio of male deaths to every 100 female deaths	137	Mahomedans	29·7	5 " 10 "	13·1
		Other classes	36·4	10 " 15 "	15·8
				15 " 20 "	17·8
				20 " 30 "	14·8
				30 " 40 "	21·0
				40 " 50 "	15·9
				50 " 60 "	27·3
				60 years and upwards	74·9

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major,

The 26th March 1888.

Offg. Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 10th March 1888.

DISTRICTS.			NAMES OF MUNICIPALITIES.			POPULATION.				BIRTHS.				MORTALITY ACCORDING TO—														Sex.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
						NUMBER OF—				RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—				DISEASE.										RATIO OF DEATHS PER 1,000 OF POPULATION PER ANNUM IN THE PREVIOUS WEEK.		DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

A special census of the Europeans in the Burdwan Municipality was recently taken, as the census of this section of the community taken in February 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives in the above table, except in the case of the Burdwan Municipality, is based on the census of 1881. The ratios under which have been omitted, inasmuch as the census of the Europeans in the above table, except in the case of the Burdwan Municipality, is based on the census of 1881.

13		14		15		16								
MORTALITY ACCORDING TO—														
Class.				Age.										
DEATHS AMONG—				DEATHS.										
RATIO PER 1,000 OF POPULATION PER ANNUM.				RATIO PER 1,000 OF POPULATION PER ANNUM.										
Christian.	Hindu.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.
Bardwan ..	8	5	..	..	1	1	1	1	1	1	1	1	1	1
Midnapore ..	10	2	..	..	2	1	1	1	1	1	1	1	1	1
Mughli and Chinsurah ..	18	2	..	..	5	1	1	1	1	1	1	1	1	1
Serampore ..	18	4	..	..	7	3	1	1	1	1	1	1	1	1
Utterpara ..	3	..	..	..	2	..	..	..	..	..	..	..	..	..
Howrah ..	1	17	14	..	9	2	2	2	2	2	2	2	2	2
Bali ..	3	..	..	..	..	3	..	..	..	..	..	..	..	..
Suburbs of Calcutta ..	3	162	110	..	44	24	9	20	15	39	48	18	19	29
Kishanagar ..	1	8	5	..	1	1	..	2	2	2	2	2	2	2
Ranaghat ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Santipore ..	9	..	..	..	1	1	1	1	1	1	1	1	1	1
Jessore ..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
Rampore Beaulah ..	3	10	..	..	3	1	1	1	1	1	1	1	1	1
Darjiling ..	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Dacca ..	9	9	..	..	3	..	1	1	1	1	1	1	1	1
Narainjan ..	5	..	..	..	..	..	..	..	..	..	..	..	..	..
Chittagong ..	1	7	..	..	1	1	1	1	1	1	1	1	1	1
Typhrah ..	5	3	..	..	1	1	1	1	1	1	1	1	1	1
Comillah ..	43	10	..	..	1	1	1	1	1	1	1	1	1	1
Patna City ..	24	4	..	..	3	7	..	3	3	2	4	4	12	13
Gya ..	4	3	..	..	3	4	2	2	1	4	2	3	3	10
Arrah ..	4	3	..	..	1	..	..	..	..	..	..	..	..	..
Mouffersore ..	2	8	..	..	2	1	..	..	..	..	..	..	..	..
Durbhanga ..	29	11	..	..	11	4	6	1	1	1	1	1	1	1
Chupra ..	5	2	..	..	2	..	..	..	..	..	..	..	..	..
Shahulpore ..	10	7	..	..	3	..	4	1	2	1	1	1	1	1
Monghyr ..	6	2	..	..	1	1	..	..	..	..	..	..	..	..
Purneah ..	5	4	..	..	2	..	..	..	..	..	..	..	..	..
Puri ..	15	..	..	..	..	..	1	..	..	..	..	..	..	..
TOTAL	5	455	254	..	120	59	33	35	34	77	92	49	50	116
	21	247	297	..	364	280	131	158	178	148	210	159	273	749

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 26th March 1888.

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major,
Offg. Sanitary Commissioner of Bengal.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1887-88.

Areas leased for Irrigation up to end of January 1888.

[illegible]

The 27th March 1888.

A. D. McARTHUR, Major, R.E.,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 24th March 1888, as compared with the corresponding week of the previous year.

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 24TH MARCH 1888.			WEEK ENDING SATURDAY, THE 26TH MARCH 1887.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	728	2,58,840	4,597	947	3,49,225	5,970
Jute ...	57	35,050	604	59	40,025	759
Firewood ...	189	85,425	1,309	142	68,750	992
Other articles ...	841	2,26,350	3,462	1,032	2,90,435	4,436
Total ...	1,815	6,05,665	9,972	2,180	7,48,435	12,157

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 17th March 1888, on 1,513½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	245,878*	2,79,248 12 6*	25,49,561 10	5,82,152 14 6	22,667 7 0	8,54,063 1 0	65,576	99,290½	164,866½
Or per mile of railway ...	...	184 7 7	...	384 9 3	14 15 6	564 0 4	...	...	...
For previous 10 weeks of half-year ...	2,765,080	32,26,389 15 0	2,78,73,216 20	67,49,695 11 3	2,21,548 14 4	1,01,91,474 11 7	61,6,641½	1,064,721½	1,731,362½
Total for 11 weeks ...	2,950,958	35,05,638 11 0	3,04,15,519 30	73,25,848 12 9	2,44,010 5 4	1,10,75,497 13 1	722,220½	1,164,012½	1,886,232½
COMPARISON.									
Total for corresponding week of previous year ...	239,893½	3,32,510 5 2	25,98,361 20	6,78,936 9 5	18,855 14 8	10,50,302 13 3	73,723	108,677	181,80
Per mile of railway corresponding week of previous year ...	...	232 1 1	...	446 15 5	12 6 7	691 7 1	...	...	...
Total to corresponding date of previous year ...	2,853,739½	33,04,445 7 10	2,89,27,699 30	74,63,972 3 4	2,04,836 7 6	1,09,75,254 2 8	751,760	1,224,380	1,976,140

* The decrease in coaching earnings is principally in pony and troops traffic.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
1,510	10,50,303	691	1,513½	8,54,063	564	1,513½	4,52,54,171	597	1,516½	4,45,48,202	588	.....	7,05,969

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 17th March 1888, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,492	8,846 1 0	25,416 30	2,185 5 0	51 6 0	11,082 12 0	1,870	632	2,508
Or per mile of railway ...	271	154 10 5	444 20	38 3 3	0 14 5	193 12 1	...	...	...
For previous 10 weeks of half-year ...	140,984	76,476 5 0	3,08,772 0	19,845 11 0	416 15 0	96,739 2 0	18,326	5,842	24,168
Total for 11 weeks ...	156,476	85,322 6 6	3,34,188 30	22,031 3 0	468 5 0	1,07,821 14 0	20,242	6,474	26,716
COMPARISON.									
Total for corresponding week of previous year ...	18,093	10,415 14 6	16,502 20	8,190 4 6	56 0 6	13,662 3 6	1,707	1,297	3,004
Per mile of railway corresponding week of previous year ...	315	182 1 6	287 30	15 12 5	0 15 8	238 13 7	...	...	...
Total to corresponding date of previous year ...	156,576½	85,688 1 4	3,01,871 0	34,931 4 0	506 13 3	1,21,216 3 4	10,202	9,087	19,289

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
57½	13,662	239	57½	11,083	194	57½	5,23,818	183	57½	4,80,870	170	.....	34,948

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 17th March 1888, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,607	428 7 0	25,240 30	472 2 0	10 12 0	911 5 0	310	153	463
Or per mile of railway ...	...	35 11 3	...	39 5 0	0 11 4	75 15 1	...	...	...
For previous 10 weeks of half-year ...	28,963	4,891 4 0	2,20,223 0	4,877 13 0	93 15 0	9,863 0 0	5,305	1,540	6,845
Total for 11 weeks ...	31,570	5,319 11 0	2,45,463 30	5,349 15 0	104 11 0	10,774 5 0	5,735	1,693	7,428
COMPARISON.									
Total for corresponding week of previous year ...	2,589	436 11 0	18,197 10	571 3 0	9 12 6	1,017 11 0	339	154	493
Per mile of railway corresponding week of previous year ...	...	36 6 3	...	47 9 7	0 13 1	84 12 11	...	...	...
Total to corresponding date of previous year ...	32,736	5,492 6 2	2,27,431 30	5,659 9 0	83 11 9	11,235 10 11	5,811	1,583	7,394

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
12	1,018	85	12	911	76	12	46,376	77	12	46,302	77	74	

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 17th March 1888, on 74 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	6,317	4,752 5 0	83,645 30	3,762 6 0	157 14 0	8,652 9 0	706	1,754	2,460
Or per mile of railway ...	...	63 8 7	...	50 4 9	1 14 6	115 10 10	...	...	...
For previous 10 weeks of half-year ...	50,298	37,796 7 0	9,04,872 20	43,310 9 0	1,267 1 0	82,374 4 0	6,659	15,295	21,954
Total for 11 weeks ...	56,615	42,548 12 0	9,88,518 16	47,072 15 0	1,405 2 0	91,000 13 0	7,365	17,049	24,414
COMPARISON.									
Total for corresponding week of previous year ...	6,152	4,750 13 4	1,03,123 30	3,816 13 0	139 11 3	8,707 5 7	691	995	1,686
Per mile of railway corresponding week of previous year ...	...	63 8 3	...	51 0 5	1 13 10	116 6 6	...	...	...
Total to corresponding date of previous year ...	63,314	47,974 13 7	12,00,964 30	50,808 3 6	1,148 3 0	1,05,931 4 1	8,359	14,631	22,990

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
74	8,707	116	74	8,652	116	74	3,90,725	106	74	4,25,634	116	84,909	

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 17th March 1888, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,483	5,636 15 0	7,218 0	255 13 0	6 0 0	5,698 12 0	978	90	968
Or per mile of railway ...	.....	244 5 9	.....	11 7 11	9 4 4	256 2 0	.....	.....	.....
For previous 10 weeks of half-year ...	206,079	53,462 10 0	89,102 30	2,991 11 0	61 13 0	56,456 2 0	9,912	800	9,812
Total for 11 weeks ...	224,562	58,839 9 0	96,110 30	3,247 8 0	67 13 0	62,154 14 0	9,800	890	10,780
COMPARISON.									
Total for corresponding week of previous year ...	18,936	4,7	8,797 20	303 10 0	5 10 0	4,059 9 5	929	39	968
Per mile of railway corresponding week of previous year ...	.....	212 9 7	.....	13 10 4	0 4 1	226 8 0	.....	.....	.....
Total to corresponding date of previous year ...	224,039†	57,881 5 8	95,472 10	3,053 2 0	74 6 0	61,008 13 8	10,592	518	11,110

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
22½	5,040	227	22½	5,039	256	22½	2,37,712	214	22½	2,55,343	230	17,631	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 10th March 1888, on 676 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-haul.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	132,425	70,910 0 0	4,56,044 0	77,290 0 0	11,372 0 0	1,68,542 0 0	24,853	25,591	50,444
Or per mile of railway ...	196	118 0 0	675 0	114 0 0	2 0 0*	274 0 0	.....	.....	.....
For previous 9 weeks of half-year ...	1,188,629	6,51,017 0 0	51,01,965 0	8,78,328 0 0	1,36,592 0 0	10,65,907 0 0	200,591	203,895	404,486
Total for 10 weeks ...	1,321,054	7,30,927 0 0	56,48,969 0	9,55,588 0 0	1,47,964 0 0	18,31,479 0 0	225,154	229,486	454,640
COMPARISON.									
Total for corresponding week of previous year ...	141,291†	65,424 0 0	4,80,219 0	61,180 0 0	11,482 0 0	1,38,086 0 0	20,820	18,009	38,880
Per mile of railway corresponding period of previous year ...	233	108 0 0	710 0	101 0 0	2 0 0*	211 0 0	.....	.....	.....
Total to corresponding date of previous year ...	1,427,175	6,79,902 0 0	68,10,692 0	8,60,612 0 0	1,32,830 0 0	10,82,344 0 0	221,411	221,964	443,375

* Excluding steamer earnings.

† Includes 19,050 monthly season tickets.

FINANCIAL YEAR.

Approximate Statement of Gross Receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
606	1,38,086	228	676	1,63,542	240	606	70,87,414	269	647	91,33,010*	286	11,46,596	.....

* Audited up to 31st December 1887.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 10th March 1888, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,620	9,900 0 0	62,535 0	6,092 0 0	40 0 0	16,541 0 0	3,198	1,752	5,250
Per mile of railway ...	205	79 0 0	500 0	54 0 0	.....	133 0 0	.....	.....	.....
For previous 9 weeks of half-year ...	231,520	81,891 0 0	4,32,526 0	37,772 0 0	660 0 0	1,20,323 0 0*	31,373	15,600	46,973
Total for 10 weeks ...	257,140	91,800 0 0	4,95,061 0	44,464 0 0	700 0 0	1,36,864 0 0	34,571	17,352	52,223
COMPARISON.									
Total for corresponding week of previous year ...	25,978	9,340 0 0	45,646 0	2,972 0 0	31 0 0	12,343 0 0	3,503	1,707	5,210
Per mile of railway corresponding period of previous year ...	208	75 0 0	365 0	24 0 0	.....	99 0 0	.....	.....	.....
Total to corresponding date of previous year ...	259,176	87,678 0 0	3,14,020 0	20,645 0 0	542 0 0	1,08,865 0 0	31,518	16,604	53,122

* Audited up to week ending 14th January 1888.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
125	12,343	99	125	10,641	133	125	5,37,855	88	125	6,30,975*	103	93,120	.....

* Audited up to week ending 14th January 1888.

DACCRA STATE RAILWAY.

Approximate Return of Traffic for week ended 10th March 1888, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,962	4,617 0 0	5,620 0	800 0 0	90 0 0	5,507 0 0	2,111	963	3,164
Per mile of railway ...	162	54 0 0	65 0	9 0 0	1 0 0	64 0 0	.....	.....	.....
For previous 9 weeks of half-year ...	122,990	45,970 0 0	1,63,412 0	14,795 0 0	618 0 0	61,383 0 0	18,764	8,448	27,292
Total for 10 weeks ...	136,952	50,587 0 0	1,69,032 0	15,595 0 0	708 0 0	66,890 0 0	20,305	9,481	30,286
COMPARISON.									
Total for corresponding week of previous year ...	12,498	4,474 0 0	7,091 0	985 0 0	291 0 0	5,753 0 0	2,488	689	3,177
Per mile of railway corresponding period of previous year ...	144	52 0 0	82 0	12 0 0	3 0 0	67 0 0	.....	.....	.....
Total to corresponding date of previous year ...	128,277	46,020 0 0	2,21,438 0	19,811 0 0	2,279 0 0	68,119 0 0	21,954	11,683	33,637

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
86	12,343	67	86	10,641	64	86	1,63,432	63	86	2,93,262*	70	29,830	.....

* Audited up to week ending 31st December 1887.

ASSAM-BEHAR STATE RAILWAY.

(PUANEH SECTION.)

Approximate Return of Traffic for week ended 10th March 1888, on 39 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	3,249	1,030 0 0	28,882 0	2,458 0 0	15 0 0	3,512 0 0	546	546	1,092
Or per mile of railway	83	27 0 0	741 0	63 0 0	.....	90 0 0	.....	.....	.....
For previous 9 weeks of half-year	26,681	9,394 0 0	1,86,724 0	17,596 0 0	134 0 0	27,122 0 0	4,914	4,914	9,828
Total for 10 weeks	29,930	10,422 0 0	2,15,606 0	20,054 0 0	149 0 0	30,634 0 0	5,460	5,460	10,920
COMPARISON.									
Total for corresponding week of previous year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per mile of railway corresponding period of previous year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total to corresponding date of previous year	.....	.....	.....	.....	.....	.....	.....	.....	.....

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Bihar State Railway.

RECEIPTS FOR WEEK ENDING 12TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 10TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 12TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
.....	Nil	.....	39	3,512	90	.....	Nil	.....	39	1,17,762*	61	1,17,762	.....

* Audited up to week ending 31st December 1887

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 17th March 1888, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,773	1,206 7 6	16,876 20	871 0 0	18 0 0	2,095 7 6	500	254	753
Or per mile of railway	100	44 4 0	619 0	31 15 0	0 11 0	76 14 0	.....	.....	.....
For previous 10 weeks of half-year	31,554	12,433 8 6	1,90,065 20	9,861 0 0	296 0 0	22,590 8 6	5,090	3,964	9,054
Total for 11 weeks	36,287	13,640 0 0	2,07,941 20	10,732 0 0	314 0 0	24,680 8 6	5,590	4,218	9,808
COMPARISON.									
Total for corresponding week of previous year	2,773	1,031 15 11	25,185 0	1,475 15 0	74 14 10	2,582 13 0	500	635	1,144
Per mile of railway corresponding week of previous year	100	37 14 0	924 0	54 2 0	2 12 0	94 12 0	.....	.....	.....
Total to corresponding date of previous year	31,563	12,792 14 11	1,68,114 30	9,162 8 0	305 7 4	22,260 14 3	5,671	4,209	9,880

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 10TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 10TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
.....	Rs.	Rs.	.....	Rs.	Rs.	.....	Rs.	Rs.	.....	Rs.	Rs.	Rs.	.....
27½	2,583	95	27½	2,005	77	27½	84,775	63	27½	92,533	68	8,000	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 17th March 1888, on 259 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week on 259 miles open	38,424	Rs. A. P. 14,917 6 8	Mds. S. 2,15,434 10	Rs. A. P. 21,462 9 6	Rs. A. P. 3,133 13 10	Rs. A. P. 39,813 14 0	6,100	7,809	13,915
Or per mile of railway	148	57 10 0	832 0	82 14 0	3 3 0	143 11 0*	.....	.....	.....
For previous 10 weeks of half-year	433,042	1,75,518 9 4	29,77,481 30	2,11,943 6 6	35,446 2 2	4,25,008 2 0	66,808	85,513	152,321
Total for 11 weeks	471,466	1,90,436 0 0	22,92,916 0	2,35,506 0 0	38,580 0 0	4,61,822 0 0	72,914	93,322	166,236
COMPARISON.									
Total for corresponding week of previous year on 246 miles open	35,033	13,060 12 11	1,29,805 30	12,959 5 0	4,066 0 11	30,086 2 16	5,691	5,026	10,620
Per mile of railway corresponding week of previous year	142	53 1 0	528 0	52 11 0	8 10 0	114 6 6*	.....	.....	.....
Total to corresponding date of previous year	412,035	1,66,187 5 9	17,81,886 0	1,77,469 15 0	34,064 1 4	3,78,021 6 1	62,392	61,329	123,721

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.			Rs.	Rs.		Rs.	Rs.	Rs.	
246	30,086	122	259	39,814	154	246	15,46,760	126	252.32	17,69,486	140	2,22,726	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 10th March 1888	...	...	8,802
Corresponding week last year	...	...	6,032
Increase	...	...	2,770
Receipts from 1st January to 10th March 1888	...	...	71,041
From 1st January to 12th March 1887	...	...	59,393
Increase	...	...	11,648
			Miles.
Miles open, week ending 10th March 1888	...	...	51
Corresponding week last year	...	...	51
			Rs. A. P.
Receipts per mile open, week ending 10th March 1888	...	...	172 9 5
Corresponding week last year	...	...	118 4 4
Increase	...	...	54 5 1

DARJEELING, the 21st March 1888.

H. B. LECH, Acting Secretary, D.-H. Ry.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, APRIL 4, 1888.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
RESOLUTION on the Opium Administration Report for 1886-87	687	STATEMENT showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 17th March 1888	701
Rainfall, Weather, and State and Prospects of the Crops	690		
Meteorological Report of the Province of Bengal for the week ending Friday, the 30th of March 1888	692	South-Western Circle—Calcutta and Eastern Canals during the month of February 1888	704
Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 30th of March 1888	694	Circular and Eastern Canals for the week ending 31st March 1888	708
Results of the Meteorological observations taken at the Amoy Observatory from 25th to 31st March 1888	699	Nalhati State Railway	709
Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 25th to 31st March 1888	700	Weekly Return of Traffic Receipts on Indian Railways	710

RESOLUTION ON THE OPIUM ADMINISTRATION REPORT FOR 1886-87.

REVENUE DEPARTMENT—MIS. REVENUE.

Calcutta, the 29th March 1888.

RESOLUTION.

READ—

A letter No. 61B, dated 30th January 1888, from the Officiating Secretary to the Board of Revenue, submitting the reports of the Opium Agents of Behar and Benares for the year 1886-87.

As there was a considerable stock of opium in hand at the commencement of the year, the Agents were requested to refrain from increasing production by adding to the area under cultivation. The present report shows that these instructions have been duly carried out, the land engaged for, 919,852 bighas, corresponding as nearly as possible with that entered in the returns of 1885-86. The Agents took advantage of the cessation of the work of extension to concentrate their operations in the districts where most profit can be obtained, to get rid of outlying stations, to weed out unsatisfactory cultivators, including those who have engaged to sow indigo on the land they also offer for opium, and in some instances to stop cultivation in the immediate neighbourhood of towns, where exceptional opportunities exist for smuggling. This is a subject to which the Lieutenant-Governor desires to draw the special attention of the Board and of officers of the Opium Department, with a view to the more general introduction of the methods which have been applied with success in some localities. When the main object was to increase the reserve, exhausted by the meagre results of indifferent years, it was impossible to insist upon the selection for opium of the best land, or of that most conveniently situated.

But now that officers have time to devote to the subject, every effort should be made to effect the settlement to the greatest advantage by the judicious selection of areas and of cultivators. The ryots are eager to enter into engagements, and there is thus an opportunity of exercising a choice by expanding cultivation in one place, while contracting it in another. There is also a considerable margin for the increase of production generally, should this be found desirable. The notes of Mr. Cadell, lately officiating as the Benares Agent, show that he rendered valuable services in this matter, to which Mr. Rivett-Carnac has also paid intelligent attention.

2. The outturn was not altogether satisfactory, being 1,07,577 maunds against 1,21,499 maunds in the previous year, and 1,33,803 maunds in 1884-85. The decrease appears due in the Benares Agency to the fact that about 2·34 per cent. of the area for which settlements were concluded was never in fact cultivated, the ryots being discouraged by the failure of the first sowings; while in the Behar Agency the yield was small, the hot winds having dried up the poppy juice. The average produce per bigha was 5 seers 3 chittacks and 2 katchas in Benares; 4 seers 5½ chittacks in Behar. The deficiency in Behar was to some extent a surprise, as the plants were well grown; it was not discovered until the lancing of the poppy disclosed the scantiness of the juice.

3. The low consistence of Benares opium having been a subject of comment in the Resolutions on the annual reports of the last two years, it is satisfactory to observe that during the last season a great improvement has been effected. The Agent states that the quality of the drug, as shown by the factory assay, was good, and that in no year, except the exceptional season of 1883-84, has the proportion of good serviceable opium been larger. This statement is altogether borne out by the following figures, which show how the opium has been classified:—

SEASONS.	Class XXX.	Class XX.	Class X.	Class I.	Class II.	Class III.	Class IV.	Class V.	Class VI.
	M. s. c.	M. s. c.	M. s. c.	M. s. c.	M. s. c.	M. s. c.	M. s. c.	M. s. c.	M. s. c.
1885-86	515 6 6½	2,082 11 1	5,206 38 8	9,838 29 10	14,302 16 18	18,669 23 9½	9,433 59 3	5,590 35 8	3,181 17 8
1886-87	270 31 13	2,709 35 11½	9,641 5 8	16,387 15 2	15,880 2 10½	8,571 8 6½	3,040 24 8	702 30 12	150 6 15

The following remarks of the Officiating Opium Agent are commended to the attention of officers of the department as indicating what improvement can be effected by attention to the quality of the opium produced:—

"The greatest improvement has taken place in Basti where, owing to Mr. Luard's successful administration, the quality of opium sent up this year has been better than in any previous year, and it may be hoped that Basti, so long notorious for the poor quality of its opium, has now finally emerged from the list of divisions which habitually send up opium of indifferent quality. The history of this division and of its neighbour, Gorakhpur, shows what care and knowledge can achieve. In former days Gorakhpur was distinctly below the average of the Agency; it now stands *facile princeps* in the quality of its opium. Indeed, as the great bulk of it is of a higher consistence than the provision standard of this Agency, it seems to be worthy of consideration whether the Gorakhpur opium, which comes to Ghazipur *via* Bankipur, should not be sent direct to Patna.

The general quality of the opium sent up for manufacture is not discussed in the Behar report—an omission which may with advantage be supplied in future years. It appears, however, that unusual strictness was exercised in assaying opium at the factory.

4. The outstanding balances amount to Rs. 16,435, a sum which must be considered small as compared with the magnitude of the advances made, which exceed two hundred lakhs of rupees a year. The success of Opium Officers in effecting realizations deserves commendation, and compares favourably with the results obtained in other branches of the administration. But there are some exceptions to the good results generally obtained in this respect, and further explanation is required of the statement that "the heavy balance in Tirhoot, aggregating Rs. 9,635-9-1, has not been recovered owing to a misunderstanding of Mr. D'Oyly's orders by the Sub-Deputy Opium Agent, and may be irrecoverable."

5. There were 1,134 prosecutions under the opium laws during the year, against 1,265 in 1885-86 and 1,928 in 1884-85. The falling off has been in the Behar Agency, where new rules were introduced under the orders of Government to

prevent malicious or frivolous accusations. Three important cases of smuggling from Nepal were detected. The subject received special attention in the Benares Agency, and the remarks of Mr Cadell, who has had very exceptional opportunities for observation, will doubtless receive the careful consideration of the Board. He observes—

“The most notable instance of restriction round large towns is the closing of poppy cultivation in the outskirts of Lucknow. The Commission has expressed the opinion that this measure was ‘an unnecessary step,’ but the effect of it on the consumption of licit opium has been unquestionable, for the sales have increased from less than 40 maunds in 1876-77 to more than 124 maunds in 1885-86; and where the average outturn is insufficient, there can be little question that cultivation near large cities should be closed at once, and further measures in the same direction have been taken during the year under report in the neighbourhood of Benares, Cawnpur, and Moradabad, while the abandonment of poppy cultivation in the Muttra district and in the neighbourhood of Agra has necessarily rendered smuggling into these towns more difficult than before. And even where the outturn was good, as it unquestionably was round Lucknow, there seems to be no advantage in maintaining it when land yielding an equally good outturn can be got elsewhere.

“A very satisfactory proof that the evil of smuggling is largely restricted in these provinces is furnished by the substantial revenue from opium excise obtained in the revenue divisions, which are worst in this respect, when compared with that of Patna—the only division in the Lower Provinces with which, for obvious reasons, comparison is possible:—

DIVISION.	Total population.	Mahomedan population.	Licit opium consumed.	Total excise revenue from opium.
			Mds. s. c.	Rs. a. p.
Benares	9,820,728	1,056,351	232 31 0	1,48,976 0 0
Faizabad	3,20,393	436,337	35 33 0	22,928 0 0
Bai Barelly	2,756,804	262,886	19 39 0	12,784 0 0
Total	15,807,985	1,755,574	288 23 0	1,84,688 0 0

“Patna	15,063,944	1,730,093	Mds. s. c.	Rs.
			69 2 8	44,200

“If the excise revenue in Patna could be raised to the same standard which has been achieved in the worst divisions of these provinces, an increase of Rs. 1,00,000 to the excise revenue would be obtained, and it is probable that this measure could be got without any injury to the opium administration.”

6. That considerable loss accrues to the revenue from the practice of licensed cultivators, whose number always exceeds a million, keeping back a small portion of their produce for domestic consumption or illicit sale, has always been admitted, and is indeed proved by the inadequate excise income obtained in the producing districts. It seems almost certain that this form of smuggling must be more prevalent near great towns, and that some gain would therefore accrue from restricting cultivation in such areas. When circumstances permit the Agent to select the places in which opium should be grown, there would, therefore, appear to be a reason for excluding urban tracts, and the counterbalancing disadvantages of adopting such a rule, if any exist, are not apparent. On this subject the Board will be requested to make a separate report.

7. The question of altering the form in which engagements are made with cultivators in order to obviate an objection which has been taken to their validity has been considered since the close of the year at a conference of Opium Officers, and orders will soon be passed upon the subject by Government.

8. The thanks of the Lieutenant-Governor are given to the Board and to the Opium Agents for their efficient administration of the department during the year. The death of

Conduct of officers.

Dr. Whitwell, whose valuable services were commended in the Resolution of 1885-86, is recorded with regret. The favourable remarks of the Board and of the Agents as to the conduct of several officers subordinate to them are noticed by Sir Stuart Bayley with pleasure, and will be communicated to the Appointment Department. The work done by Surgeon-Major Weir, Messrs. Tytler, Drake, Luard, and Hobson was of special value.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government during the week ending the 31st March 1888.

No.	District and date of return	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIVN.	1 Burdwan Mar 31, '88	Nil	Weather—seasonable. Prospects of all crops good. Sugarcane harvest excellent. Common rice stands at 22 seers per rupee on an average.
	2 Bankoora „ 31, '88	0.04	Weather—hot and occasionally cloudy. Pressing of sugarcane is finished. Wheat and barley are being reaped and mustard threshed. Transplanting of <i>boro</i> paddy going on. No change in the rice market.
	3 Beerbhoom „ 31, '88	Nil	Cool nights. Weather seasonable. <i>Rubbi</i> harvest almost over; outturn good. Sugarcane excellent.
	4 Midnapur „ 31, '88	Nil	Weather—slightly cooler. <i>Boro</i> paddy in ear and doing well.
	5 Hooghly „ 31, '88	Nil	Weather—normal. State and prospects of crops good so far.
	6 Howrah Apl. 2, '88	Nil	Strong southerly breeze. All prospects good.
<i>Central Districts.</i>			
PRESIDENCY DIVN.	6 24-Pergha. Apl 3, '88	Nil	Weather—hot and bright. Mornings and evenings cool. No crops on the ground except sugarcane, which promises well. Ploughing progresses. Prices stationary.
	7 Nuddea Mar. 31, '88	Nil	Weather—hot and fair. Tillage for <i>aus</i> and indigo in progress.
	Koochtea „ „	0.13	
	8 Khoolna „ 31, '88	Nil	Weather—warm and clear, mostly with southerly breeze. <i>Boro</i> rice promises well. Ploughing going on.
	9 Jessore „ 31, '88	Nil	Weather—cooler than last week. Tillage for early rice in progress. Prospects of standing crops good.
	10 Moorsshedabad „ 31, '88	Nil	Weather—getting warmer. <i>Rubbi</i> crops are still being harvested.
RAJSHAHY DIVN.	11 Dinagepur Mar. 31, '88	Nil	Weather—moderately hot. Lands are being ploughed for <i>bhadoi</i> crops.
	12 Rajshahye „ 31, '88	Nil	Days hot, nights fairly cool. Rain with hail in Nowgong has benefited land under preparation, but has somewhat injured <i>til</i> and jute plants. Rain wanted elsewhere. Cutting of spring crops continues; outturn generally good.
	Nowgong „ „	0.48	
	13 Rungpur „ 31, '88	Nil	Weather—warm and cloudy. <i>Aus</i> up and doing well. Jute is being sown. Tobacco and wheat are being gathered with good outturn.
	Gaibanda „ „	0.11	
	14 Bogra „ 31, '88	0.12	Weather—extremely hot up to 27th, since which slight rain has somewhat cooled the atmosphere. Prospects good. Ploughing for <i>aus</i> and jute going on.
	Sherpur „ „	0.42	
	Nowkhilla „ „	0.20	
	15 Pubna „ 31, '88	0.07	Strong south-westerly winds. A destructive storm at Mothura on afternoon of 27th. Prospects of crops favourable.
	Serajgunge „ „	0.17	
RAJSHAHY DIVN.	16 Darjeeling „ 31, '88	0.06	Weather—cloudy; fairly warm; very little rain. Ploughing for <i>bhadoi</i> rice and jute continues. In the hills Indian-corn and potatoes are progressing favourably, but more rain is wanted elsewhere. Tea-plucking has begun.
	17 Julpigoree „ 31, '88	Nil	Weather—unsettled; east wind. Sowing of <i>bhadoi</i> has commenced in places. Prospects of crops good. Tobacco is said to have been injured by hail-stones.
<i>Eastern Districts.</i>			
DACCA DIVISION.	18 Dacca Mar. 31, '88	0.25	Weather—hot. <i>Rubbi</i> crops are being gathered. Ploughing for <i>aus</i> paddy and jute continues, and sowing is being pushed on. <i>Boro</i> paddy doing well.
	Munshigunge „ „	0.6	
	Naraingunge „ „	0.13	Prospects of crops continue favourable.
	19 Farreedpur „ 31, '88	Nil	Weather—hot; slight rain here and there. Ploughing continues. Cold-weather crops are being harvested.
	Madaripur „ „	0.40	
	20 Backergunge „ 29, '88	Nil	Weather—seasonable. Prospects of crops continue good.
DACCA DIVISION.	21 Mymensingh „ 30, '88	Nil	Weather—sultry. Prospects of crops good.
	Netrokona „ „	0.17	
CHITTAGONG DIVN.	22 Chittagong Apl. 3, '88	Nil	Weather—seasonable. Prospects of standing crops fair. Prices stationary.
	23 Noakholly Mar 30, '88	Nil	Weather—seasonable. <i>Rubbi</i> crops are being harvested. Betel and coconuts flowering. Cultivation of <i>aus</i> progressing and sowing begun in low lands.
	24 Tipperah „ 29, '88	Nil	Weather—seasonable; rather cloudy. State and prospects of crops good. There was rain last week, but a little more would not come amiss. However, there is no room for complaint.
	25 Chittagong Hill „ 27, '88	Nil	Weather—excessively hot; cloudy on the 25th. <i>Jam</i> cutting nearly finished. Tobacco and chillies doing well.
	Tracts. Hill Tipperah „ 28, '88	Nil	Weather—windy and occasionally cloudy. Prospects of standing crops continue to be fair.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
PATNA DIV.	26 Patna Mar. 31, '88	Nil	Weather—getting hot gradually. <i>Rubbi</i> crops are being reaped. Threshing has commenced. A good prospect of mango crop. Prices of food-grains almost stationary.
	27 Gya „ 31, '88	Nil	Weather—seasonable. Threshing of <i>rubbi</i> commenced. Extraction of opium finished. Sugarcane being irrigated.
	28 Shahabad „ 31, '88	Nil	Weather—dry and hot. Threshing of <i>rubbi</i> crops in progress. Opium collection almost over with excellent outturn.
	29 Darbhanga „ 31, '88	Nil	Weather—cold mornings and hot days. Harvesting of <i>rubbi</i> crops not yet over. Sowing of <i>moong</i> and early rice in progress. Collection of opium completed. Price of common rice averages 20 seers per rupee.
	30 Mozufferpur „ 31, '88	Nil	Weather—seasonable; warm. <i>Rubbi</i> harvest nearly completed; threshing commenced. Opium weighing will shortly commence.
	31 Sarun „ 31, '88	Nil	Weather—seasonable. <i>Rubbi</i> is being harvested. Gathering of opium over. Prospects of all standing crops good.
BHAGULPORE DIV.	32 Chumparun „ 31, '88	Nil	Weather—mornings foggy, days hot with variable winds. <i>Rubbi</i> harvesting still going on; average yield estimated. Extraction of opium finished; weighing commences from the 5th proximo. <i>Cheena</i> is coming on well.
	33 Monghyr Mar. 31, '88	Nil	Weather—hot and dry. Harvesting of <i>rubbi</i> crops still going on; outturn fair. Mango crop promises well.
	34 Bhagulpur „ 31, '88	Nil	Weather—seasonable. <i>Rubbi</i> harvest yielding about 8-anna outturn. <i>Mohua</i> crop also poor. Rain wanted.
	35 Purneah „ 31, '88	Nil	Weather—seasonable. Wheat below the average. <i>Bhadoi</i> and jute cultivation beginning.
	36 Malda „ 31, '88	A few drops.	Weather—days warm, but nights still fairly cool. Winds slight and variable. Harvesting of <i>rubbi</i> crops still going on; outturn generally good except in the north, where some damage has been due to want of rain. Most of the <i>boro</i> paddy has been transplanted, and the sowing of <i>bhatoi</i> paddy is going on. Rain is much wanted for these crops. Common rice is selling at an average of 23½ seers per rupee.
	37 Sonthal Pergas. „ 31, '88	Nil	Weather—dry with west winds. Sugarcane harvest going on. Rain wanted for indigo. <i>Mohua</i> crop is being gathered.
ORISSA.			
ORISSA DIV.	38 Cuttack Mar. 30, '88	Nil	Weather—fair. <i>Dalua</i> paddy is flowering and partly ripening. Price of rice stationary.
	39 Pooree „ 29, '88	0.06	Weather—seasonable. Land is being ploughed for the next <i>sarad</i> crop. <i>Dalua</i> crop is being harvested. Common rice 24 seers 7 chittacks per rupee in the Sudder sub-division and 23 seers in the Khoorda sub-division.
	40 Balasore „ 30, '88	Nil	Weather—getting gradually warmer. Land is being tilled for rice. <i>Til</i> and other crops promise well. Sugarcane is being planted.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hazaribagh, Mar. 30, '88	Nil	Weather—seasonable; warm. Sugarcane is being planted and doing well. Prospects of <i>mohua</i> and mango good so far. Gathering of opium completed. Condition of agricultural stock fair.
	42 Lohardugga „ 31, '88	Nil	Weather—hot. Harvesting of <i>rubbi</i> continues. Prices steady.
	43 Singbhoom „ 30, '88	Nil	Weather—cool and misty in the mornings, but very warm during the daytime. <i>Rubbi</i> harvest continues; a 12-anna outturn expected. Mango and <i>mohua</i> so far satisfactory. Cattle-disease on the increase.
	44 Manbhoom „ 31, '88	Nil	Weather—getting hotter every day. Spring crops doing fairly well. Good outturn of <i>mohua</i> expected except in Govindpore, where the flowers have been injured by rain and wind.

Published for general information.

CALCUTTA, REVENUE DEPT.;
The 3rd April 1888.P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.														
			AIR PRESSURE.			WIND.			TEMPERATURE.								
			Mean barometric height, in mm.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean to A.M. temperature.	
ORISSA.	Pooree	Pooree	29.898	29.910	—	SW	333.0	99.2	25th Mar.	78.1	29th & 30th Mar.	86.8	78.7	83.8	—	81.3	
	Pooree	Gopalpore	29.843	29.868	—0.017	SSW	331.0	88.2	24th "	74.8	30th "	85.7	78.0	81.9	+2.1	83.5	
		Falar Point	29.890	29.901	—0.016	SSW	336.0	95.6	24th "	75.6	24th, 29th & 30th Mar.	88.6	76.8	82.7	+0.7	85.5	
	Cuttack	Cuttack	29.806	29.887	—0.012	SSW	69.0	103.4	24th "	75.3	28th "	100.8	75.5	88.0	+1.0	88.7	
	Balasore	Balasore	29.827	29.886	—0.012	SW	171.7	99.6	24th & 25th Mar.	67.8	29th "	94.4	72.7	84.0	+3.0	87.6	
NORTH-WEST BENGAL.	South-West Midnapore	Saugor Island	29.869	29.895	—0.018	S	429.0	91.7	29th "	78.5	29th "	88.6	79.4	84.0	+1.2	84.4	
	South 24-Pergunnas	Midnapore	29.744	29.794	+0.005	S	102.0	107.3	26th "	71.2	26th & 30th Mar.	101.6	73.3	87.5	+3.3	89.0	
	24-Pergunnas	Howrah	29.852	29.874	—0.025	SSW	117.0	98.9	25th "	72.7	29th "	93.8	75.1	84.5	+1.0	87.8	
	Howrah	Burdwan	29.765	29.865	—0.026	Variable	90.4	104.7	25th "	68.1	29th "	99.9	73.6	86.7	+2.7	87.8	
	Bankura	Bankura	29.546	—	—	NW & Calm	65.0	106.1	25th "	69.6	29th "	101.7	73.6	87.7	—	89.0	
	Beerbhoom	Kaneegunge	29.533	29.838	—0.029	Westerly	104.2	105.8	25th "	69.7	29th "	101.8	74.2	88.0	+4.4	90.5	
	West Burdwan	Burdwan	29.793	29.860	—0.021	SW	98.0	102.7	25th "	66.2	29th "	98.1	71.9	85.1	+1.6	85.6	
	Moorsheadabad	Krishnagar	29.796	29.852	—	SSW	132.8	103.5	25th "	68.5	29th "	98.0	74.1	86.1	—	88.5	
	Nuddea	Jessore	29.851	29.884	—0.014	S	91.8	103.3	25th "	74.4	30th "	96.5	76.0	86.2	+2.8	86.9	
	Jessore	Chittagong	29.852	29.942	—0.002	Southerly	139.0	87.1	27th & 28th Mar. Not received.	73.5	24th & 30th Mar.	86.2	75.1	80.7	+1.7	81.9	
EAST BENGAL.	Chittagong Hill Tracts	Dumagiri	29.803	29.905	+0.028	S	157.4	91.8	29th "	74.9	30th "	99.2	75.7	85.0	+4.3	84.8	
	Backergunge	Noakholly	29.876	29.929	+0.017	SSW	200.9	87.7	24th "	72.8	30th "	86.6	75.7	81.3	+4.1	84.9	
	Noakholly	Furzedpore	29.869	29.969	+0.005	Southerly	169.9	85.6	24th "	71.7	29th "	88.6	74.1	81.4	+2.2	85.1	
	Furzedpore	Dacca	29.856	29.888	—0.006	SW	195.0	96.1	25th "	74.1	28th "	91.0	75.7	83.4	+1.7	84.5	
	Dacca	Commillah	29.871	29.907	—0.000	S	141.1	91.5	29th "	72.8	29th "	89.1	74.7	81.0	+3.1	84.1	
	Commillah	Mymensingh	29.811	29.879	—0.027	SE	150.4	91.3	27th "	68.2	28th "	90.0	73.2	81.7	+5.3	83.6	
	Mymensingh	Bogra	29.766	29.829	—0.028	SE & W	150.7	101.3	26th "	66.8	24th & 29th Mar.	96.6	72.4	84.5	?	86.8	
	Bogra	Pubna	29.816	29.863	—0.015	S	125.0	97.9	25th "	66.9	24th "	92.9	71.6	82.3	+3.6	84.2	
	Pubna	Rajshahye	29.789	29.859	—0.017	SW	100.2	99.4	25th "	62.7	29th "	94.7	68.7	81.7	+0.8	88.1	
	Rajshahye	Maldah	29.707	—	—	NW	95.3	98.7	27th "	60.7	29th "	97.6	65.7	81.5	—	86.9	
NORTH BENGAL.	Maldah	Dinapore	29.721	29.810	—0.029	SSW	134.0	98.0	26th & 28th Mar.	63.2	26th "	95.4	67.1	81.3	+2.9	89.7	
	Dinapore	Rangpore	29.721	29.849	—0.026	SE	119.0	96.5	26th "	64.3	25th "	93.4	66.6	80.0	+3.5	82.4	
	Rangpore	Jalpigoree	29.672	29.863	—0.007	E	119.7	93.0	28th "	61.9	26th & 27th Mar.	86.3	64.7	75.5	+1.0	78.1	
	Jalpigoree	Cooch Behar	29.724	29.851	—0.026	NW	59.3	97.3	27th & 28th Mar.	59.7	27th "	94.2	64.1	79.8	—0.7	83.5	
	Cooch Behar	Darjeeling Hill Tracts	Darjeeling	29.724	29.851	—0.026	NW	59.3	97.3	27th & 28th Mar.	59.7	27th "	94.2	64.1	79.8	—0.7	83.5
	Darjeeling Hill Tracts	Purneah	29.724	29.851	—0.026	NW	59.3	97.3	27th & 28th Mar.	59.7	27th "	94.2	64.1	79.8	—0.7	83.5	
	Purneah	North Bhagulpore	29.724	29.851	—0.026	NW	59.3	97.3	27th & 28th Mar.	59.7	27th "	94.2	64.1	79.8	—0.7	83.5	
	North Bhagulpore	Mozufferpore	29.724	29.851	—0.026	NW	59.3	97.3	27th & 28th Mar.	59.7	27th "	94.2	64.1	79.8	—0.7	83.5	
	Mozufferpore	Durbhanga	29.679	29.848	—0.013	WSW	157.0	95.2	25th "	65.4	29th "	92.2	68.7	80.4	+1.1	82.7	
	Durbhanga	Chumpran	29.595	29.822	—0.021	WNW	232.1	99.0	25th "	55.6	24th "	93.3	60.9	79.1	+6.2	86.6	
SOUTH BENGAL.	Chumpran	Farun	29.642	29.838	—0.010	W	185.7	92.5	27th & 28th Mar.	63.8	27th "	89.6	67.1	78.4	—3.1	88.8	
	Farun	Shahabad	29.594	29.855	—0.017	W	212.4	101.6	28th "	69.5	29th "	98.3	73.8	86.1	+4.3	91.1	
	Shahabad	Buxar	29.619	29.860	—0.005	WNW	176.1	99.4	23th & 27th Mar.	65.4	30th "	96.2	68.7	82.5	+1.3	88.8	
	Buxar	Arrah	29.646	29.842	—0.005	W & NW	132.9	101.4	25th "	63.8	28th "	97.6	67.4	82.5	+0.3	88.8	
	Arrah	Gya	29.402	29.836	—0.081	W	133.7	103.0	25th "	65.1	28th "	99.3	60.3	84.3	—0.1	91.1	
	Gya	Patna	29.865	29.848	—0.020	WNW	112.7	100.5	25th "	64.7	27th "	97.4	69.0	83.2	+1.2	88.8	
	Patna	South Bhagulpore	29.865	29.848	—0.020	WNW	112.7	100.5	25th "	64.7	27th "	97.4	69.0	83.2	+1.2	88.8	
	South Bhagulpore	Monghyr	29.865	29.848	—0.020	WNW	112.7	100.5	25th "	64.7	27th "	97.4	69.0	83.2	+1.2	88.8	
	Monghyr	South 24 Pargunnas	Duotinka	29.333	—	—0.006	WNW	98.7	103.7	25th "	65.4	29th "	99.1	71.6	85.4	+3.4	88.8
	South 24 Pargunnas	Hazaribagh	27.832	29.803	+0.006	NW	238.6	97.6	27th "	63.8	28th "	99.0	68.9	81.9	+1.6	88.8	
NAGPORE.	Hazaribagh	Lohardugga	27.757	29.850	+0.008	NW	178.9	79.3	29th & 27th Mar.	61.1	29th "	98.3	68.2	81.9	+4.7	88.8	
	Lohardugga	Ranchee	27.757	29.850	+0.008	NW	178.9	79.3	29th & 27th Mar.	61.1	29th "	98.3	68.2	81.9	+4.7	88.8	
	Ranchee	Singhbhoom	29.103	—	—0.010	Calm	45.7	104.8	29th "	63.7	29th "	101.6	71.6	82.9	+1.4	88.8	

Explanation. — Summary. — The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the last 10 years. The humidity of the atmosphere is expressed as percentage, saturated air being represented by 100. A clearing is denoted by C and an overcast sky by O. The 24 hours of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question. The total rainfall in the district and the number of stations are given in the summary.

for the week ending Friday, the 30th of March 1888.

DISTRICT OBSERVATIONS.														Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
No.	Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.						Average number of rainy days.	Normal number of rainy days.			
				Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1887.							
						Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.					
80	3.3	0.01	0.02	0.2	0.15	0.84	-0.79	46.52	58.18	-11.66	0.2	0.7	Pooree	Pooree	ORISSA.	
78	0.4	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpora	Pooree	ORISSA.	
76	3.4	Nil	—	—	—	—	—	—	—	—	—	—	False Point	Pooree	ORISSA.	
55	1.7	Nil	Nil	0.25	0.03	1.17	-0.54	48.23	54.58	-6.35	0.0	0.6	Cuttack	Cuttack	ORISSA.	
54	0.4	Nil	0.09	0.44	0.71	1.31	-0.00	46.35	56.87	-10.52	0.2	0.9	Balasore	Balasore	ORISSA.	
70	4.9	Nil	Nil	0.53	0.32	1.36	-1.04	62.92	65.35	-2.43	0.0	0.9	Saugor Island	South-West Midnapore	ORISSA.	
46	1.6	Nil	Nil	0.34	0.70	1.07	-1.27	53.68	54.17	-0.49	0.0	0.8	Midnapore	South 24-Pergunnahs	ORISSA.	
63	3.1	Nil	Nil	0.51	1.07	1.53	-0.46	44.28	55.07	-10.79	0.0	1.1	Calcutta	24-Pergunnahs	ORISSA.	
41	2.6	Nil	Nil	0.61	0.73	1.47	-0.74	47.98	49.22	-1.24	0.0	1.2	Burdwan	Howrah	ORISSA.	
32	0.4	0.05	0.01	0.44	0.13	1.26	-1.13	51.58	54.27	-2.69	0.2	1.0	Bankoora	Bankoora	ORISSA.	
29	1.1	Nil	Nil	0.24	0.35	0.65	-0.30	49.09	54.10	-5.01	0.0	0.7	Raneegunge	Beerbhoom	ORISSA.	
42	1.9	Nil	0.07	0.43	0.45	0.63	-0.45	60.60	61.54	-0.94	0.3	0.9	Berhampore	West Burdwan	ORISSA.	
42	2.7	Nil	0.03	0.77	2.14	1.71	+0.48	46.59	62.23	-15.64	0.2	1.3	Krishnagur	Moorshedabad	ORISSA.	
60	4.4	Nil	0.05	0.85	1.69	2.30	-0.31	45.31	57.22	-11.91	0.1	1.4	Jessore	Nuddea	ORISSA.	
71	6.7	Nil	Nil	0.50	1.37	1.84	-0.47	102.44	117.22	-14.78	0.0	1.2	Chittagong	Khoolna	ORISSA.	
73	4.9	Nil	Nil	0.78	1.62	2.17	-0.55	64.02	81.51	-17.49	0.0	1.4	Barrisal	Chittagong Hill Tracts	ORISSA.	
71	7.0	Nil	Nil	1.39	3.74	3.72	+0.02	78.53	114.57	-36.04	0.0	1.3	Noakholly	Backergunge	ORISSA.	
70	2.3	0.12	0.19	0.85	4.00	2.53	+1.42	41.73	60.20	-18.47	0.7	1.4	Furroedpore	Noakholly	ORISSA.	
72	5.6	0.24	0.41	1.45	4.97	2.93	+2.04	47.08	65.21	-17.63	0.5	1.7	Dacca	Furroedpore	ORISSA.	
72	3.3	Nil	Nil	1.26	5.75	3.91	+1.82	50.18	70.39	-20.21	0.0	1.5	Comillah	Dacca	ORISSA.	
69	4.3	Nil	0.17	0.03	2.26	2.10	+0.16	63.74	70.75	-7.01	0.6	1.4	Mymensingh	Comillah	ORISSA.	
54	0.0	Nil	0.16	0.49	0.50	1.14	-0.55	61.55	59.18	+2.37	0.5	1.0	Bogra	Mymensingh	ORISSA.	
61	2.1	0.11	0.12	0.50	1.88	1.46	+0.42	47.80	56.37	-8.57	1.0	1.2	Serajunge	Bogra	ORISSA.	
46	0.6	0.02	Nil	0.30	1.20	0.84	+0.36	51.93	55.85	-3.92	0.0	0.8	Ranpore Beaulah	Pubna	ORISSA.	
32	0.0	Nil	0.28	0.17	0.63	-0.46	47.02	56.11	-9.09	0.0	0.7	Maldah	Ranpore Beaulah	ORISSA.		
33	0.4	Nil	0.15	0.34	0.69	0.68	+0.01	70.08	57.30	+12.78	0.4	0.8	Dinagore	Maldah	ORISSA.	
61	0.0	0.03	0.55	2.41	1.39	1.39	+1.01	83.40	73.20	+10.20	0.3	1.0	Rangpore	Dinagore	ORISSA.	
74	2.0	Nil	Nil	1.08	2.34	1.84	+0.50	120.37	112.78	+7.59	0.0	1.5	Jalpigoree	Rangpore	ORISSA.	
68	3.6	0.12	0.10	1.18	2.92	1.91	+1.01	121.75	123.70	-2.01	0.5	2.2	Darjeeling	Jalpigoree	ORISSA.	
44	0.0	Nil	Nil	0.16	0.07	0.44	+0.53	66.33	59.02	+7.31	0.0	0.4	Purneah	Darjeeling Hill Tracts	ORISSA.	
46	0.0	Nil	0.11	0.22	0.48	-0.26	47.67	44.23	+3.44	0.0	0.3	Mozufferpore	Purneah	ORISSA.		
26	0.3	Nil	Nil	0.04	0.59	0.27	+0.33	50.06	45.08	+4.98	0.0	0.3	Durbhunga	Mozufferpore	ORISSA.	
28	3.1	Nil	Nil	0.05	0.15	0.37	-0.22	49.07	47.33	+1.74	0.0	0.3	Motihari	Durbhunga	ORISSA.	
53	0.0	Nil	Nil	0.07	0.12	0.27	-0.15	40.37	43.82	-3.45	0.0	0.4	Chupra	Champuram	ORISSA.	
14	0.4	Nil	—	—	—	—	—	—	—	—	—	—	Dehree	Sarun	ORISSA.	
22	1.3	0.02	0.03	0.04	0.37	-0.33	38.67	41.18	-2.51	0.2	0.2	Buxar	Dehree	ORISSA.		
22	0.0	Nil	—	—	—	—	—	—	—	—	—	—	Arrah	Shahabad	ORISSA.	
34	2.3	Nil	0.18	0.04	0.40	-0.56	39.34	42.56	-3.22	0.0	0.3	Gya	Arrah	ORISSA.		
38	1.9	Nil	Nil	0.07	0.31	-0.31	36.81	42.33	-5.52	0.0	0.4	Bankipore	Gya	ORISSA.		
36	0.0	Nil	0.09	Nil	0.35	-0.35	43.00	44.11	-0.51	0.0	0.3	Bhagulpore	Bankipore	ORISSA.		
36	1.1	Nil	Nil	0.12	0.25	0.68	-0.33	55.41	51.62	+3.79	0.0	0.4	Deonka	South Bhagulpore	ORISSA.	
16	2.7	Nil	Nil	0.07	0.03	0.05	-0.02	47.84	52.11	-4.27	0.0	0.3	Hazaribagh	Deonka	ORISSA.	
23	0.7	Nil	Nil	0.18	0.18	0.85	-0.67	46.45	49.17	-2.72	0.0	0.4	Ranchi	Hazaribagh	ORISSA.	
24	0.7	Nil	Nil	0.18	1.17	-1.17	53.66	59.42	-5.76	0.0	0.5	Chyabassa	Loherdugga	ORISSA.		
24	0.7	Nil	Nil	0.18	1.17	-1.17	53.66	59.42	-5.76	0.0	0.5	Chyabassa	Manbhoom	ORISSA.		
24	0.7	Nil	Nil	0.18	1.17	-1.17	53.66	59.42	-5.76	0.0	0.5	Chyabassa	Singbhoon	ORISSA.		

The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The normal mean represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
 are the numerical average of the rainfall received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 30th of March 1888

Meteorological division.	District.	Station.	RAINFALL.						TOTAL.		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1887.	Average rainfall from 15th May to date.		
			Saturday, 24th March.	Sunday, 25th March.	Monday, 26th March.	Tuesday, 27th March.	Wednesday, 28th March.	Thursday, 29th March.	Friday, 30th March.	Number of rainy days.					Rainfall week.	
ORISSA	Pooree	Pooree	.....	.....	.....	0.06	.....	.....	1	0.06	0.06	0.52	50.55	53.45
		Khurda	.....	.....	.....	.....	.....	.....	Nil	Nil	0.04	0.86	50.03	50.00
		Banpur	Nil	Nil	0.14	0.89	50.93	53.75	
		False Point	Nil	Nil	0.08	1.06	50.09	50.25	
		Gop	Nil	Nil	Nil	?	50.22	?	
		Pipli	Nil	Nil	0.46	?	?	?	
	Cuttack	Jagatsingapore	Nil	Nil	Nil	0.84	51.08	49.35	
		Banki	Nil	Nil	0.05	1.76	49.23	55.05	
		Cuttack	Nil	Nil	2.13	1.21	51.45	58.53	
		Kendrapara	Nil	Nil	0.74	0.87	54.76	51.48	
		Jajpore	Nil	Nil	0.23	1.14	50.89	54.66	
		Dharmasalla	Nil	Nil	Nil	?	44.40	?	
	Balasore	Salipore	Nil	Nil	Nil	?	51.31	?	
		Chandbali	Nil	Nil	Nil	1.17	49.69	55.86	
		Bhuddruck	Nil	Nil	1.50	1.54	48.30	54.74	
		Sorah	0.52	1	0.52	0.82	1.67	42.09	55.03	
		Balasore	Nil	Nil	0.90	1.44	55.74	61.03	
		Jellasore	Nil	Nil	0.90	1.02	40.65	55.01	
	SOUTH-WEST BENGAL.	Baripodah	Nil	Nil	0.31	1.21	49.57	50.86	
		Midnapore	Contai	Nil	Nil	0.37	1.06	53.95	64.31	
		24-Pergunnahs	Saugor Island	Nil	Nil	0.29	1.32	74.18	69.30
			Tumlook	Nil	Nil	0.90	1.77	53.63	54.02
			Midnapore	Nil	Nil	0.20	1.47	49.12	51.50
			Ghatal	Nil	Nil	1.09	1.66	54.25	57.08
Kukruhaty			Nil	Nil	1.02	?	58.42	?	
Heria			Nil	Nil	0.45	?	45.41	?	
Howrah		Bhagwanpore	Nil	Nil	0.49	?	45.06	?	
		Garbeta	Nil	Nil	0.46	?	51.27	?	
		Diamond Har- bour	Nil	Nil	0.30	1.52	61.65	61.75	
		Canning Town	Nil	Nil	0.34	?	51.32	?	
		Alipore Jail	Nil	Nil	2.65	1.59	57.20	58.78	
		Barrackpore	Nil	Nil	0.54	1.75	49.01	52.63	
Hookhly		Dum-Dum	Nil	Nil	1.39	1.57	45.02	54.86	
		Barasat	Nil	Nil	1.47	1.50	43.33	53.27	
		Busserhat	Nil	Nil	1.05	2.21	54.26	57.88	
		Howrah	Howrah	Nil	Nil	1.19	1.48	40.94	54.04	
		Moheareka (Ooloberiah.)	Nil	Nil	0.71	1.20	41.74	56.70	
		Hookhly	Serampore	Nil	Nil	0.58	1.32	50.90	53.58	
Burdwan		Hookhly	Nil	Nil	0.68	1.40	42.37	61.14	
		Jehanabad	Nil	Nil	0.37	1.21	57.73	54.06	
	Culina	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.13	1.42	40.31	47.16
	Burdwan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	1.68	47.37	50.63
	Culwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.79	1.31	50.43	49.90
	Ranagunga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.11	0.67	47.19	61.06
Bankoora	Mankur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.97	?	44.59	?
	Bankoora	.....	.....	0.04	.....	.....	.....	.....	1	0.04	0.04	1.31	45.41	54.10
	Bishnupore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.35	1.40	57.37	53.91
	Mahara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.12	0.79	50.37	51.13
	Khatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.49	51.12	58.80
	Indas	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.20	?	42.04	?
	Kotalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	48.10	?
	Anda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.05	?	39.49	?
	Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50.49	?
	Karpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53.64	?
	Sonamukhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.76	?	38.08	?
Beerbhoom	Bh. Soory	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.25	0.08	51.83	53.75
	Hetampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.51	0.51	51.87	56.42
	Ram-pore Haui	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.70	?	45.40	51.83
	Bolpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42.45	?
Nuddea	Ranaghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.49	1.56	52.54	49.85
	Kishinaghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.72	1.60	44.53	45.99
	Choudanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.84	1.81	45.28	54.59
	Meherpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.78	2.00	51.72	56.18
Khowlna	Koushitea	.....	.....	.....	0.13	.....	.....	.....	1	0.13	3.86	1.73	48.55	57.75
	Satkha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.06	2.63	40.23	50.06
	Bagirhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.89	1.88	54.94	59.55
	Khowlna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.21	2.15	48.21	53.86
Jessore	Narail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.06	1.92	26.78	50.82
	Jessore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.00	2.32	44.11	55.58
	Jhendah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.01	2.24	47.03	57.89
	Mugoorah	.....	.....	.....	.....	.....	0.39	.....	1	0.39	8.15	2.37	53.69	53.93
Moorshedabad	Bongong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.82	1.84	58.58	53.91
	Kandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.25	0.97	48.07	57.98
	Berhampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.20	1.03	57.84	53.98
	Lalbagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.35	1.02	70.29	50.17
	Azimganga	.....	.....	.....	.....	0.32	.....	.....	1	0.32	0.70	0.63	51.10	51.94
	Jungipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.23	0.64	53.47	49.49
	Lalgola	.....	.....	.....	.....	.....	0.10	.....	1	0.10	0.17	0.93	62.79	52.01
	Akhriganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.01	?	54.45	?
Chittagong	Patkabari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.70	?	?	?
	Cox's Bazar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.17	1.88	124.72	138.84
	Chittagong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.65	2.33	80.13	98.00
	Kutubdia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.03	?	79.42	?
Chittagong Hill Tracts.	Satkanya	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.10	?	65.61	?
	Rangamati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.47	3.02	81.01	87.98
Backergunge	Kuma	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.15	2.71	63.71	84.06
	Patnakhal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.67	1.82	70.79	61.23
	Perasapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.14	1.82	63.33	78.78
	Burrial	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.16	2.68	61.66	78.08
	Bhola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.02	2.61	61.24	87.99

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 30th of March 1888—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of May 1887.	Average rainfall from 1st of May to date.
			Saturday, 24th March.	Sunday, 25th March.	Monday, 26th March.	Tuesday, 27th March.	Wednesday, 28th March.	Thursday, 29th March.	Friday, 30th March.	Number of rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Noukholly	Gournadi	.....	.....	.....	.....	0.07	.....	.....	1	0.07	2.05	?	43.40	?
		Bauphal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.01	?	61.07	?
		Noakholly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.85	3.60	77.83	114.23
		Fenny	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4.62	3.81	79.39	114.53
	Furreedpore	Harishpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.29	?	77.07	?
		Ramganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6.11	?	63.43	?
		Madariore	.....	.....	.....	.....	.....	0.40	.....	1	0.40	2.38	2.84	38.50	61.63
		Furreedpore	.....	.....	.....	.....	.....	0.16	.....	1	0.16	5.49	2.70	45.39	61.35
	Dacca	Gomundo	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.92	2.20	41.21	60.39
		Munshigunge	.....	.....	.....	.....	.....	.....	.....	1	0.60	5.34	3.84	46.97	77.27
		Dacca	.....	.....	.....	0.25	.....	.....	.....	1	0.25	5.57	2.77	53.48	63.91
		Narainkunge	.....	.....	.....	.....	0.13	.....	.....	1	0.13	6.22	3.12	60.82	60.18
	Hill Tipperah	Manickkunge	.....	.....	.....	.....	0.65	.....	.....	1	0.65	2.71	2.66	38.91	64.46
		Joydebpore	.....	.....	.....	.....	.....	0.22	.....	1	0.22	4.01	?	53.94	?
		Agartola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7.00	4.15	52.21	67.96
		Comilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.57	3.06	54.07	82.31
	Tipperah	Chandpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5.55	3.29	46.1	80.04
		Brabmumberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6.81	4.51	48.34	69.12
		Ramchandrapore	.....	.....	.....	.....	.....	0.46	.....	1	0.46	3.62	?	43.12	?
		Nasirnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.94	?	35.85	?
	Mymensingh	Daudkandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.23	?	39.70	?
		Kasba	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8.60	?	62.76	?
		Luksham	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.19	?	35.40	?
		Kishoregunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.41	2.92	61.18	74.18
	Pubna	Atia (Tangail)	.....	.....	.....	0.19	.....	.....	.....	1	0.19	1.50	1.43	47.72	58.94
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.99	2.15	71.45	77.43
		Jamulpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.65	1.43	63.51	67.87
		Neorokana	.....	.....	.....	0.17	.....	0.47	.....	2	0.64	4.73	2.59	79.22	75.37
	Bogra	Subornakhally	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.96	?	63.45	?
		Durgapore	.....	.....	.....	0.00	.....	.....	0.20	2	1.10	4.66	?	129.57	?
		Deuaganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.99	?	81.83	?
		Pubna	.....	.....	.....	0.07	.....	.....	.....	1	0.07	2.19	1.07	41.61	67.91
NORTH BENGAL.	Bogra	Boragunge	.....	.....	.....	.....	0.17	.....	.....	1	0.17	1.57	1.26	53.91	55.21
		Sherpore	.....	.....	.....	0.42	.....	.....	.....	1	0.42	0.97	1.52	49.26	61.55
		Nowshilla	.....	.....	.....	0.20	.....	.....	.....	1	0.20	0.53	1.26	60.33	66.43
		Bogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.16	0.85	67.65	62.05
	Rajshabhe	Panchbibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.66	0.91	60.00	60.15
		Besuleah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.90	0.78	59.40	59.40
		Natore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.41	0.90	59.39	57.16
		Naogaon	.....	.....	.....	0.48	.....	.....	.....	1	0.48	0.48	?	61.30	?
	Malda	Laipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.64	?	37.32	?
		Mandu	.....	.....	.....	0.23	.....	.....	.....	1	0.23	0.46	?	61.18	?
		Malda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.91	0.75	49.83	53.08
		Chanchal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.33	0.41	44.16	50.00
	Dinapore	Gajol	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.50	?	61.50	?
		Subganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.03	?	53.08	?
		Mohadebpore	.....	.....	.....	0.49	.....	.....	.....	1	0.49	0.53	0.80	63.01	69.15
		Churamon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.18	0.10	59.31	53.12
	Rungpore	Kaungunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.96	0.51	74.51	67.99
		Dinapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.66	0.38	59.90	63.96
		Baloorhat	.....	.....	.....	0.28	.....	.....	.....	1	0.28	6.94	0.65	62.65	82.07
		Bhawungunge (Gyabanda)	.....	.....	.....	0.11	.....	.....	.....	1	0.11	1.78	1.44	60.34	63.31
	Julpigore	Rungpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.08	1.17	83.50	76.93
		Kurgram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.39	1.89	77.65	76.65
		Bagdura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.39	1.08	103.83	84.94
		(Niphamari), Ulipore	.....	.....	.....	0.35	.....	.....	.....	1	0.35	3.12	?	61.01	?
	Cooch Behar	Julpigore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.35	1.68	129.06	118.39
		Alipore Doar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.77	?	142.01	?
		Fallacotta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4.18	?	147.18	?
		Debiganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.22	?	98.97	?
NORTH BHARAT	Darjeeling Hill.	Dumkatta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.36	1.72	104.36	90.78
		Cooch Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.39	1.78	125.02	120.42
		Mokligunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.40	1.58	123.96	108.40
		Masabhang	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.18	2.46	119.37	110.80
	Purneah	Busa	0.25	.....	.....	.....	.....	.....	.....	1	0.25	6.10	2.89	175.85	196.10
		Siliguri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.93	1.31	110.97	103.81
		Darjeeling	0.06	.....	.....	.....	.....	.....	.....	1	0.06	2.97	1.76	112.56	112.56
		Kalimpoung	0.07	.....	.....	.....	.....	.....	.....	1	0.07	1.89	1.07	83.70	84.43
	North Bhagulpore.	Kissegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.65	0.61	85.20	70.54
		Arrarean	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.50	0.56	68.35	64.55
		Purneah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.65	0.38	67.47	61.41
		Gandwara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.42	?	?	?
	Durbhanga	Balarumpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	60.20	?
		Natori	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.76	?	83.05	?
		Kaliaganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	79.20	?
		Madaspore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.24	0.31	55.58	50.17
	Mounseerpore	Boopool	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.83	0.38	55.82	46.46
		Protogani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.83	?	67.13	?
		Tajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.10	0.22	44.89	43.96
		Durbhanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.05	0.22	55.92	44.15
	Chumpana	Madhubani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.63	0.38	66.24	45.40
		Bahera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.90	?	53.19	?
		Bohera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	40.52	?
		Altamari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.49	0.00	60.71	42.93
	Mounseerpore	Mounseerpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	0.42	44.13	46.03
		Hajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	0.37	37.86	60.15
		Paru	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	61.04	?
		Mahua	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	?	?
	Chumpana	Sanay	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.50	?	?	?
		Papri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	?	?
		Metihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	0.37	59.80	44.47
		Betlah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.30	0.57	40.12	50.15
	Baksha	Baksha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.26	?	60.60	?
		Baksha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.14	?	30.73	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 30th of March 1888—conold.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1887.	Average rainfall from 16th May to date.
			Saturday, 24th March.	Sunday, 25th March.	Monday, 26th March.	Tuesday, 27th March.	Wednesday, 28th March.	Thursday, 29th March.	Friday, 30th March.	Number of rainy days.	of Rainfall week.				
NORTH BHAR.	Saran	Gopalgunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.07	0.14	42.05	44.90
		Nowan...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.24	39.74	43.13
SOUTH BHAR.	Shahabad	Chunar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.28	0.24	38.70	41.40
		Buxar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.28	34.73	39.32
		Denree...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	?	39.76	?
		Thubooah...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.02	41.88	41.90
		Sasaram...	.....	0.06	.....	.....	.....	.....	.....	1	0.06	0.14	0.25	36.58	41.60
		Arrah...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.33	41.34	41.00
		Mohania...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Gya	Aurangabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.40	29.00	43.91
		Gya...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	0.35	43.87	43.41
		Nowadah...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.07	0.45	26.01	41.19
		Jehanabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.37	40.77	41.38
		Arwal...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41.13	?
		Dumraonagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	26.01	?
		Sherrghati...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36.45	?
		Rajauli...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Pakri Barawan...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	22.21	?
	Patna	Patna...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.33	37.17	43.08
		Dumraon...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.20	38.44	42.12
		Behar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.35	35.54	43.12
		Harra...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.37	36.06	40.23
		Bickram...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40.05	?
		Hilsa...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31.54	?
	Monghyr	Hegoonerai...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.21	40.68	40.39
		Monkhyr...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.53	47.24	47.36
		Jamun...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.47	40.02	44.25
		Ongri...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42.63	?
	South Bhagulpore	Sheikhpura...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28.58	?
		Bhagulpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.31	41.23	43.25
		Banika...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.35	39.90	45.02
		Kolung...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43.45	?
	Sonthal Pergumna	Rajmehal...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.36	57.98	52.49
		Godda...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.12	49.56	45.82
		Pakour...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.34	0.55	78.05	54.24
		Nya Duomka...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.33	0.72	40.04	65.66
		Deokpur...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.63	0.64	47.99	51.54
		Jamara...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.19	0.74	49.24	50.80
		Sinra...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	?	?
		Namhat...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.02	?	36.81	?
CHUTIA NAG-PUR.	Hazaribagh	Paonamua (Girdi)...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.68	42.00	40.66
		Hazaribagh...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.07	0.72	47.58	49.64
		Saintaguran...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	1.40	41.27	48.00
		Manadi Hills...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.21	40.51	49.51
		Jhoomrah Hills...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.02	58.60	64.05
		Barhi...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39.76	?
		Chitra...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	?	50.10	?
		Karagdeha...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72.40	?
	Lohardugga	Kamghar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51.54	?
		Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.43	?	57.69	?
		Kanani...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.15	64.38	54.07
		Palamow...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.63	50.71	41.50
		Silli...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Batumat...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Hosseinabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.09	?	35.80	?
		Garsah...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54.85	?
	Singbhoem	Chyetomua...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.17	53.03	53.46
		Chakradhar...	.....	.....	0.09	.....	.....	.....	.....	1	0.09	0.14	?	41.30	?
		Chatsilla...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55.79	?
		Bharagura...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41.15	?
	Mantboom	Purulia...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.08	46.83	51.21
		Gobindpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.36	0.52	29.79	47.16
		Raghunathpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38.04	?
		Barrabhoem...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43.31	?
		Jhalda...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Chas...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	?	?	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the return are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA th. 3rd April 1888.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 30TH MARCH 1888.

At the commencement of the week pressure was very low and considerably below the average of the period in Bengal. Strong westerly winds were blowing across Behar into West Bengal, and unusually strong winds across the Bengal coast into Orissa, South and East Bengal. Pressure began to increase on the 25th, on which day the dry hot winds blowing across Behar gave very high temperatures in West Bengal. Pressure steadily increased until the 29th, when it was from one-sixth to a quarter of an inch higher than on the 24th. With the rise of the barometer the winds in Behar decreased in strength, and the day temperatures in Western Bengal as well as in South Behar decreased several degrees. On the 27th and 28th a few local thunder-showers occurred at several stations in East and North Bengal. The amounts of rain registered were very small, and the slight disturbance which gave rise to these thunder-storms apparently passed away on the evening of the 28th. At this time an unusually rapid rise of the barometer was in progress in Upper India. This caused on the 28th a very considerable and rapid extension of the westerly winds across Behar into Central and North Bengal as far east as Jessore, Rampore, Beaulah, Bogra, Serajgunj and Dinagepore. These dry winds gave unusually low humidities to Central Bengal on the 28th and morning of the 29th, after which they retreated, and were replaced by the usual damp southerly winds of the season. The barometer began to fall on the 30th, on which day (the last of the week) fine settled weather with clear skies prevailed over the whole province.

Pressure.—As stated above, the barometer rose steadily and continuously from the 23rd to the 29th, when the return downward movement commenced. The rise varied from $\cdot 15''$ to $\cdot 25''$ in amount, and was greatest in North Bengal and Behar. Pressure was so low at the commencement of the week that, notwithstanding the large rise, the mean pressure for the week was below the average over the greater part of the province. The deficiency for the week was $\cdot 025''$ in amount in South-West Bengal, $\cdot 02''$ in North Bengal and Behar, and $\cdot 01''$ in Orissa.

The mean pressure of the week was almost identical with the average of the period in East Bengal and Chutia Nagpur.

Temperature.—The conditions at the beginning of the week gave very high day temperatures to Behar, South-West and Central Bengal, and Chutia Nagpur. This culminated on the 25th, when the highest temperatures of the week and month were observed. The following are amongst the most remarkable:—

					Maximum temperature during week.
Midnapore	...	...	...	...	107.3° on the 25th.
Bankoora	...	...	...	...	106.1° ditto.
Raneegunge	...	...	...	...	105.8° ditto.
Chyebassa	...	...	...	...	104.8° ditto.
Burdwan	...	...	...	...	104.7° ditto.
Gya	...	...	...	...	103.0° ditto.
Jessore	...	...	...	...	103.3° ditto.

The temperature fell considerably on the 26th and varied from day to day during the remainder of the week within moderate limits.

The mean temperature of the week was above the average for all divisions except North Behar. The excess averaged 3.2° for East Bengal, 2.6° for South-West Bengal, 2° for Chutia Nagpur, and 1.7° for South Behar and Orissa.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 30th March 1888.

	Normal mean maximum temperature for the week ending 30th March.	Actual mean maximum temperature for the week ending 30th March 1888.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 30th March.	Actual mean minimum temperature for the week ending 30th March 1888.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 30th March.	Actual mean daily temperature for the week ending 30th March 1888.	Variation of actual mean from the normal.
Outlook	...	...	...	...	...	...	...	...	...
Calcutta	98.8	100.8	+2.0	75.2	75.5	+0.3	87.0	88.1	+1.1
Dacca	92.6	93.8	+1.2	72.0	75.1	+3.1	82.6	84.5	+1.9
Burdwan	91.7	91.0	-0.7	71.0	75.7	+4.7	81.7	83.4	+1.7
Patna	96.1	99.9	+3.8	71.9	78.6	+6.7	84.0	86.7	+2.7
Gya	96.3	97.4	+1.1	67.6	69.0	+1.4	82.0	83.2	+1.2
Purneah	98.5	99.3	+0.8	70.3	69.3	-1.0	84.4	84.3	-0.1
Hamirbagh	94.3	94.2	-0.1	65.4	64.1	-1.3	79.9	79.2	-0.7
Darjeeling	93.0	95.0	+2.0	60.9	68.9	+8.0	80.0	81.9	+1.9
	87.7	90.5	+2.8	44.0	49.2	+5.2	50.9	54.9	+4.0

Humidity.—The air has been drier than usual in Behar and Chutia Nagpur during the week. The only remarkable feature in this element of observation during the week was the

very large and sudden decrease of humidity in West and Central Bengal on the morning of the 28th, caused by the extension of westerly dry winds into that area. No change occurred in Behar, where the air was on the whole slightly damper than on the 27th. The following examples will illustrate the magnitude of the change:—

				HUMIDITY AT 10 A.M.		Decrease in 24 hours.
				27th March.	28th March.	
Bancoora	...	...	...	62	20	42
Ranigunj	...	...	...	75	11	64
Berhampore	...	...	...	74	18	56
Krishnaghur	...	...	...	70	16	54
Burdwan	...	...	...	68	14	54
Calcutta	...	...	...	74	24	50
Jessore	...	...	...	78	39	39
Bogra	...	...	...	69	29	40
Serajgunj	...	...	...	72	36	36
Rampore Beaulah	...	...	...	67	21	46
Maldah	...	...	...	50	19	31
Dinagapore	...	...	...	42	22	20

The humidity increased with almost equal rapidity in Bengal on the afternoon of the 29th and morning of the 30th.

Rain.—A few light local showers of little importance fell on the 23rd in the Darjeeling Hills, and on the 27th and 28th in some districts of East and North Bengal. The amounts registered were in all cases small, and averaged less than a tenth of an inch for these meteorological divisions.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 30th of March 1888:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.								RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1887.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	103.4	67.8	92.9	75.7	84.3	+1.7	0.04	0.32	-0.28	0.1	0.8	-0.7	0.48	1.13	40.89	58.24	
South-West Bengal ..	107.3	66.2	97.8	74.6	86.2	+2.6	0.02	0.55	-0.53	0.1	1.1	-1.0	1.00	1.47	49.87	54.73	
East Bengal	96.1	68.2	88.8	74.9	81.9	+3.2	0.11	1.06	-0.95	0.3	1.5	-1.2	3.32	2.75	61.32	70.37	
North Bengal	101.3	60.7	93.8	68.1	81.0	+2.4	0.07	0.57	-0.50	0.3	1.2	-0.9	1.40	1.18	75.65	71.33	
North Behar	99.0	58.6	91.8	65.2	79.0	-0.6	Nil	0.10	-0.10	0.0	0.3	-0.3	0.50	0.57	53.07	49.33	
South Behar	103.0	63.1	98.0	89.0	84.0	+1.8	Nil	0.08	-0.08	0.0	0.3	-0.3	0.08	0.40	42.85	44.80	
Chutia Nagpur	97.5	61.1	85.2	68.0	81.0	+2.0	Nil	0.10	-0.10	0.0	0.4	-0.4	0.05	0.93	46.58	51.07	

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;

J. ELIOT.

The 3rd April 1888.

for Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 25th to 31st March 1888.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1888.		°		Inches	°	°	°	°	°	Inches	°	%			Inches	
Mar.	25th	142.9	5.4	29.732	83.9	93.2	16.7	76.5	77.9	0.875	75.2	76	SSW and S	156	Nil	Chiefly cloudy, o.
"	26th	145.5	3.0	805	83.6	91.2	14.1	77.1	78.4	906	76.2	79	SSW, SSE and S	119	"	Chiefly cloudy.
"	27th	144.0	8.6	791	83.5	90.6	15.4	75.2	78.0	887	75.6	78	SSW and S by W	165	"	Chiefly cloudy, o.
"	28th	146.6	7.6	812	83.4	92.7	18.2	74.5	72.0	612	66.0	60	SSW, NNW and calm.	63	"	Clear, p.
"	29th	147.5	7.8	844	83.3	93.0	18.4	74.6	76.0	803	72.6	73	S by W, variable and calm.	50	"	Chiefly clear, p.
"	30th	148.3	8.9	796	83.5	93.7	19.2	74.5	77.4	858	74.6	77	SSW and S	129	"	Chiefly clear, p.
"	31st	146.1	9.3	748	83.0	91.3	16.9	71.1	77.8	882	75.4	79	SSW and S	132	"	Chiefly clear.

The mean pressure of the seven days	...	...	...	Inches.	29.730
The average pressure of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	29.778
The total number of hours of bright sunshine	...	...	...	Hours.	50.6
The maximum possible number of hours of sunshine	...	...	...	...	85.7
The mean temperature of the seven days	...	...	...	°	83.5
The average temperature of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	83.5
The extreme variation of temperature	...	...	...	...	19.3
The maximum temperature	...	...	...	...	93.7
The highest velocity of the wind in one hour	...	...	...	M.P.S.	14
The highest pressure of wind on one square foot	...	...	...	Lbs.	Not measurable.
The mean relative humidity	...	...	...	%	75
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	66
The total fall of rain from 25th to 31st March 1888	...	...	...	Inches.	Nil
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	0.09
The total fall from 1st January to 31st March 1888	...	...	...	...	4.89
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	2.77

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, p. dew.

JOHN ELIOT,

Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 2nd April 1888.

**Results of the Thermometrical Observations taken at the Meteorological Office,
Chowringhee, from 25th to 31st March 1888.**

MONTH.	Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1888.		°	°	°	°	°	Inches.	°	%	Inches.
March	... 25th ...	83.6	95.2	11.6	76.6	78.9	.926	76.9	80	Nil.
"	... 26th ...	83.5	93.0	10.5	77.2	79.3	.946	77.5	82	"
"	... 27th ...	83.1	94.0	10.9	75.3	78.6	.919	76.7	81	"
"	... 28th ...	81.7	95.0	13.3	75.7	68.3	.473	57.4	39	"
"	... 29th ...	83.8	95.4	11.6	75.0	71.5	.608	64.5	53	"
"	... 30th ...	83.8	96.2	12.4	75.1	76.8	.828	73.5	72	"
"	... 31st ...	83.0	94.0	11.0	74.8	77.3	.861	74.7	76	"

The mean temperature of the seven days ... 83.6

The extreme variation of temperature ... 21.4

The maximum temperature ... 96.2

The mean relative humidity ... 69%

The total fall of rain from 25th to 31st March 1888 ... Nil

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;

The 2nd April 1888.

JOHN ELIOT,

Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE chief incidents in connection with the vital statistics of the principal Municipalities in Bengal, for the week ending 17th March 1888, are the following:—

1. That during the week in question births and deaths were registered in the proportions, respectively, of 21·8 and 29·7 per 1,000 of population, as opposed to 19 and 26·1 per 1,000, respectively, during the preceding week ending 10th March, indicating a considerable improvement in the registration of both the casualties.

2. That births and deaths were recorded in the highest rates from the following Municipalities:—

Births.			Deaths.		
		Ratio per mille.			Ratio per mille.
Beaulah	...	55·2	Comillah	...	84·7
Kishmaghur	...	45·4	Suburbs of Calcutta	...	61·4
Hughli	...	43·0	Narainganj	...	41·4
Narainganj	...	41·4	Gya	...	32·8
Comillah	...	38·5	Darjiling	...	32·6
Durbhanga	...	37·8	Midnapore	...	32·5
Bhagulpore	...	31·7	Burdwan	...	32·0
Monghyr	...	30·7	Durbhanga	...	30·7
			Hughli	...	29·5

3. That the specific diseases, as noted below, proved fatal at the rates exhibited opposite them:—

						Ratio per mille during the weeks ending—	
						17th March 1888.	10th March 1888.
Cholera	...	...	...	...	...	8·2	5·1
Small-pox	...	...	...	...	...	·1	·1
Fever	...	...	...	...	...	9·9	10·3
Bowel-complaints	...	...	...	...	...	3·4	2·8
Injury	...	...	...	...	...	·2	·2
Other causes	...	...	...	...	...	7·8	7·6

indicating chiefly, that the mortality from cholera was much higher during the week under notice than during the preceding week.

4. That while bowel-complaints proved fatal only in Hughli Municipality at the high rate of 10·7 per 1,000 of population, and the deaths from small-pox and injury were nowhere noticeably large, the other diseases enumerated above caused the highest mortality in the Municipalities mentioned below:—

Cholera.		Fever.		Other causes.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Comillah	53·9	Comillah	26·9	Gya	20·5
Suburbs of Calcutta	29·6	Burdwan	25·9	Midnapore	17·0
Howah	11·4			Monghyr	11·7
Serampore	7·8			Durbhanga	11·0
Hughli	6·7			Suburbs of Calcutta	10·5
Gya	2·7				

5. That the mortality of the week, classified under the heads of Sex, Class and Age, stood as shown below:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	31·8	Christians	21·7	Under 1 year	190·4
Females	27·3	Hindus	28·6	1 and under 5 years	38·4
Ratio of male deaths to every 100 female deaths	132	Mahomedans	32·8	5 " 10 "	16·3
				10 " 15 "	13·1
				15 " 20 "	19·3
				20 " 30 "	26·1
				30 " 40 "	21·2
				40 " 50 "	23·7
				50 " 60 "	32·8
				60 years and upwards	60·7

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major,

The 2nd April 1888.

Offg. Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 17th March 1888.

DISTRICTS.	NAMES OF MUNICIPAL PAUISHES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—										SEX.			
		NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.			DEATHS FROM—					RATIO PER 1,000 OF POPULATION PER ANNUM.								
		Males.	Females.	Total.	Males.	Females.	Total.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.					
																Males.	Females.				
Ratio of male deaths to every 100 female deaths.																					
Burdwan	Burdwan	15,017	31,080	46,097	10.7	6.1	16.8	17.5	...	17	1	...	...	...	25.9	19.8	9	12	25.9	38.9	75
Midnapore	Midnapore	16,837	31,550	48,387	10.3	6.2	16.5	12.9	...	4	4	...	...	...	6.2	18.6	9	12	27.6	37.5	75
Hughli	Hughli and Chinsurah	19,179	38,718	57,897	11.5	7.0	18.5	10.5	...	7	8	...	...	...	9.4	20.5	7	13	19.0	39.9	46
Scrampore	Scrampore	13,559	26,496	40,055	11.8	7.3	19.1	10.0	...	2	4	...	...	...	3.9	43.2	5	5	30.7	20.1	160
Howrah	Howrah	3,043	6,610	9,653	9.4	18.9	28.3	10.5	...	...	...	...	...	...	9.4	28.3	1	...	...	...	No female deaths.
24-Pargunnahs	Suburbs of Calcutta	23,153	47,609	70,762	11.4	7.9	19.3	10.5	...	7	3	...	...	...	4.0	18.9	17	29	15.6	27.6	83
Waddes	Waddes	7,835	16,815	24,650	11.4	7.9	19.3	10.5	...	...	...	...	...	...	4.0	18.9	17	29	15.6	27.6	No female deaths.
Jessore	Jessore	18,263	36,526	54,789	10.3	6.2	16.5	12.9	...	9	9	...	...	...	17.0	20.5	7	6	27.4	22.0	116
Barisal	Barisal	4,928	8,653	13,581	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	100
Chittagong	Chittagong	13,708	27,417	41,125	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	100
Dacca	Dacca	4,930	8,493	13,423	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Comilla	Comilla	10,766	21,532	32,268	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Patna	Patna	5,929	11,858	17,787	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Chittagong	Chittagong	42,783	85,566	128,351	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Comilla	Comilla	7,903	15,806	23,713	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Patna	Patna	13,340	26,680	40,020	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Gya	Gya	78,762	157,524	236,286	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Arrah	Arrah	38,290	76,580	114,870	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Monerpoore	Monerpoore	20,960	42,605	63,565	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Darbhanga	Darbhanga	23,084	46,168	69,252	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Chupra	Chupra	38,776	77,552	116,328	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Bhagalpore	Bhagalpore	26,044	52,088	78,132	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Monerpoore	Monerpoore	29,640	59,280	88,920	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Monerpoore	Monerpoore	28,154	56,308	84,462	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Monerpoore	Monerpoore	8,463	16,926	25,389	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
Monerpoore	Monerpoore	13,247	26,494	39,741	12.3	7.3	19.6	11.8	...	...	...	...	...	...	12.0	...	1	1	12.9	11.2	No female deaths.
TOTAL		702,886	1,392,581	2,095,467	10.6	6.3	16.9	11.8	...	...	...	...	...	...	12.0	...	...	...	...	...	...

[illegible]

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 2nd April 1888

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major,
Offg. Sanitary Commissioner of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of February 1888.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
2,840	1. Grain ...	47,574	.....	47,574	33,36,529	47,574	33,36,529
9	2. Cotton ...	135	.....	135	69,500	135	69,500
13	3. Oilseeds ..	210	.....	210	22,974	210	22,974
539	4. Salt ...	554	8,739	9,293	10,40,800	9,293	10,40,800
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
10	6. Metal ...	16	83	99	17,625	99	17,625
211	7. Building materials	2,102	50	2,152	36,148	2,152	36,148
2,004	8. Miscellaneous* ...	15,995	2,087	18,082	19,33,922	18,082	19,33,922
598	9. Fuel ...	11,002	1,921	12,923	1,11,714	12,923	1,11,714
.....	10. Timber ...	.....	.....	.....	.....	.....	.....
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....
6,224	12. Total ...	77,588	12,880	90,468	65,69,212	90,468	65,69,212
5,396	13. Total of same month last year.	72,167	11,626	83,793	52,43,552	83,793	52,43,552
		Up.	Down.	Total.			Rs. A. P.
14.	Total number of boats plying cargo ... No.	5,400	824	6,224	Total tollage of month— 24 + 25 + 26 ...	59,350	8 9
14a.	Ditto empty ..	3,507	1,022	4,529	Total tollage of same month last year ...	50,538	13 3
15.	Total number of boats plying passenger ... No.	340	5	345	<i>Memorandum of Tollage.</i>		
16.	Total registered tonnage, cargo Tons.	239,202	36,731	275,933			
17.	Total registered tonnage, passenger Tons.	898	32	930			
18.	Ton-mileage ...	2,045,690	367,310	24,13,000			
19.	Estimated value of cargo Rs.	53,18,715	1,250,497	65,69,212	1. Balance not recovered on the 1st of the month	2,507	12 3
20.	Number of passengers No.	1,460	26	1,486	2. Tollage per month ...	59,350	8 9
21.	Rafts, bamboos c. ft.	.....	.....	.....	3. Total ...	61,858	5 0
22.	Do., bullahs ..	.....	.....	.....
23.	Estimated value of rafts Rs.	.....	.....	.....	4. Amount paid into treasury during the month ...	60,206	15 6
24.	Tollage on boats ..	50,725-13-3	8,624-11-6	59,350-8-9	5. Balance due at the end of the month ...	14,851	8 6
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts ..	.....	.....	.....
27.	Total tollage on boats per ton-mile Rs.	.....	.....	4-72 pies			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

* For detail see next page.

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
462	(a) Jute ...	11,018	.....	11,018	12,33,956	11,018	12,33,956
66	(b) Jaggery ...	341	268	609	85,325	609	85,325
15	(c) Sugar ...	64	.....	64	12,635	64	12,635
3	(d) Tobacco ...	24	1	25	2,760	25	2,760
571	(e) Fish ...	178	.....	178	49,893	178	49,893
7	(f) Hides ...	11	.....	11	2,400	11	2,400
74	(g) Poultry ...	21	.....	21	17,525	21	17,525
181	(h) Hay and straw ...	1,493	.....	1,493	31,468	1,493	31,468
90	(j) Oils ...	.....	1,021	1,021	1,42,900	1,021	1,42,900
34	(k) Earthenware ...	53	29	82	1,148	82	1,148
501	(m) Other miscellaneous	2,792	768	3,560	3,53,912	3,560	3,53,912
2,004	Total Miscellaneous...	15,995	2,087	18,082	19,33,922	18,082	19,33,922

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of February 1888.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
2,840	1. Grain ...	47,574	.....	47,574	33,36,529	47,574	33,36,529
9	2. Cotton ...	135	.....	135	69,500	135	69,500
13	3. Oilseeds ..	210	.....	210	22,974	210	22,974
539	4. Salt ...	551	8,739	9,293	10,40,800	9,293	10,40,800
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
10	6. Metal ...	16	83	99	17,625	99	17,625
211	7. Building materials	2,102	50	2,152	36,148	2,152	36,148
2,004	8. Miscellaneous* ...	15,995	2,087	18,082	19,33,922	18,082	19,33,922
598	9. Fuel ...	11,002	1,921	12,923	1,11,714	12,923	1,11,714
.....	10. Timber ...	.....	.....	.....	.....	.....	.....
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....
6,224	12. Total ...	77,588	12,880	90,468	65,69,212	90,468	65,69,212
5,396	13. Total of same month last year.	72,167	11,626	83,793	52,43,552	83,793	52,43,552
		Up.	Down.	Total.			Rs. A. P.
14.	Total number of boats plying cargo ... No.	5,400	824	6,224	Total tollage of month— 24 + 25 + 26 ...		59,350 8 9
14a.	Ditto empty „	3,507	1,022	4,529	Total tollage of same month last year ...		50,538 13 3
15.	Total number of boats plying passenger No.	340	5	345	Memorandum of Tollage.		
16.	Total registered tonnage, cargo Tons.	239,202	36,731	275,933			
17.	Total registered tonnage, passenger Tons.	898	32	930			
18.	Ton-mileage ...	2,045,690	367,310	24,13,000			
19.	Estimated value of cargo Rs.	53,18,715	1,250,497	65,69,212	1. Balance not recovered on the 1st of the month		2,507 12 3
20.	Number of passengers No.	1,460	26	1,486	2. Tollage per month ...		59,350 8 9
21.	Rafts, bamboos c. ft.	.....	.....	.....	3. Total ...		61,858 5 0
22.	Do., bullahs „	.....	.....	.....
23.	Estimated value of rafts Rs.	.....	.....	.....	4. Amount paid into treasury during the month		60,206 15 6
24.	Tollage on boats „	50,725-13-3	8,624-11-6	59,350-8-9	5. Balance due at the end of the month		1,651 5 6
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts „	.....	.....	.....
27.	Total tollage on boats per ton-mile Rs.	.....	.....	4-72 pies			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

* For detail see next page.

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
462	(a) Jute ...	11,018	.....	11,018	12,33,936	11,018	12,33,956	
66	(b) Jaggery ...	341	268	609	85,325	609	85,325	
15	(c) Sugar ...	64	.....	64	12,635	64	12,635	
3	(d) Tobacco ...	24	1	25	2,760	25	2,760	
571	(e) Fish ...	178	.....	178	49,893	178	49,893	
7	(f) Hides ...	11	.....	11	2,400	11	2,400	
74	(g) Poultry ...	21	.....	21	17,525	21	17,525	
181	(h) Hay and straw ...	1,493	.....	1,493	31,468	1,493	31,468	
90	(j) Oils ...	.....	1,021	1,021	1,42,900	1,021	1,42,900	
34	(k) Earthenware ...	53	29	82	1,148	82	1,148	
501	(m) Other miscellaneous	2,792	768	3,560	3,53,912	3,560	3,53,912	
2,004	Total Miscellaneous...	15,995	2,087	18,082	19,33,922	18,082	19,33,922	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of February 1888.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
5,605	1. Grain ...	19,205	.....	19,205	11,59,382	19,205	11,59,382
9	2. Cotton ...	127	.....	127	71,000	127	71,000
2	3. Oilseeds ...	23	.....	23	3,250	23	3,250
92	4. Salt ...	701	503	1,204	1,31,800	1,204	1,34,800
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
3	6. Metal ...	55	.....	55	7,670	55	7,670
357	7. Building materials ...	3,176	.....	3,176	15,071	3,176	15,071
1,083	8. Miscellaneous* ...	3,361	170	3,531	3,43,955	3,531	3,43,955
245	9. Fuel ...	3,496	16	3,512	30,178	3,512	30,178
1 raft	10. Timber ...	.....	478 c. ft.	478 c. ft.	1,434	478 c. ft.	1,434
6 rafts	11. Bamboos ...	370 c. ft.	.....	370 "	61	370 "	61
7,396 & 7 rafts.	12. Total ...	30,144 & 370 c. ft.	689 & 478 c. ft.	30,833 & 848 c. ft.	17,66,801	30,833 & 848 c. ft.	17,66,801
7,333 & 2 rafts	13. Total of same month last year.	28,689 & 70 No.	586 & 70 No.	29,275 & 140 No.	14,97,262	29,275 & 140 No.	14,97,262

* For detail see next page.

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	7,303	93	7,396	Total tollage of month — 24 + 25 + 26 ...	17,106 10 6
14a. Ditto empty "	1,192	320	1,512		
15. Total number of boats plying passenger No.	623	66	689	Total tollage of same month last year ...	15,574 0 6
16. Total registered tonnage, cargo Tons.	96,204	3,325	99,529	Memorandum of Tollage.	
17. Total registered tonnage, passenger Tons.	1,541	216	1,757		
18. Ton-mileage ...	3,37,997	53,152	9,91,149		Rs. A. P.
19. Estimated value of cargo ...	16,92,076	73,230	17,65,306	1. Balance not recovered on the 1st of the month ...	1,484 0 6
20. Number of passengers ..	5,064	520	5,584	2. Tollage per month ...	17,106 10 6
21. Rafts, bamboos c. ft.	370	.....	370		
22. Do., bullahs "	.....	478	478	3. Total ...	18,590 11 6
23. Estimated value of rafts Rs.	61	1,434	1,495		
24. Tollage on boats "	16,239-12-0	854-8-6	17,094-4-6	4. Amount paid into treasury during the month ...	17,906 4 6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts "	1-8-0	10-14-0	12-6-0		
27. Total tollage on boats per ton-mile Rs.	.....	.....	3-31 pies		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-7-4	5. Balance due at the end of the month ...	684 7 6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupees.	
2	(a) Jute ...	20	...	20	2,200	20	2,200	
88	(b) Jaggery ..	521	4	521	73,010	521	73,010	
3	(c) Sugar ...	21	...	21	4,025	21	4,025	
8	(d) Tobacco ...	57	7	64	10,500	64	10,500	
217	(e) Fish ...	41	1	42	11,843	42	11,843	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
3	(g) Poultry ...	1	.....	1	168	1	168	
358	(h) Hay and straw...	856	.....	856	17,976	856	17,976	
40	(j) Gils ...	284	3	284	39,825	284	39,825	
114	(k) Earthenware .	108	5	113	1,589	113	1,589	
250	(m) Other miscella- neous.	1,119	150	1,609	1,82,519	1,609	1,82,519	
1,083	Total Miscellaneous ...	3,361	170	3,531	3,43,955	3,531	3,43,955	

**ABSTRACT FOR THE MONTH OF FEBRUARY 1888, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

	TRAFFIC, 1887-88.		TRAFFIC, 1886-87.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	59,350 8 9	3,81,268 9 6	50,538 13 3	3,18,405 0 0
Tolly's Nullah ...	17,106 10 6	1,25,895 1 6	15,574 0 6	96,090 10 0
Total ...	76,457 3 3	5,07,163 11 0	66,112 13 9	4,14,495 10 0

Calcutta,
The 3rd April 1888.

A. D. McARTHUR, Major, R.E.
Under-Secretary to the Government of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 31st March 1888,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 31st MARCH 1888.			WEEK ENDING SATURDAY, THE END APRIL 1887.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	1,194	3,27,060	6,097	598	1,83,140	3,204
Jute ...	26	12,275	147	43	30,005	556
Firewood ...	239	1,05,125	1,587	153	80,800	1,022
Other articles ...	1,029	2,31,130	3,843	743	2,35,885	3,331
Total ...	2,488	6,75,590	11,674	1,537	5,29,830	8,113

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of January 1888, as compared with the same month of the previous year.

STAPLES.	1887.		1888		1887.	1888.	Increase.	Decrease.
	Up.	Down.	Up.	Down.	Total.	Total.		
Coal	Tons. 630	Tons.	Tons. 870	Tons.	Tons. 630	Tons. 870	Tons. 240	Tons.
Cotton, raw	14	....	23	....	14	23	9	....
Cotton piece-goods—								
1.—European	26	3	50	1	29	51	22	....
Drugs and chemicals—								
2.—Non-intoxicating—								
3.—Others	1	....	1	....	1	1	....	....
Jute—								
1.—Raw ... ..	....	38	....	....	38	....	....	8
2.—Gunny-bags and cloths	34	4	39	2	38	41	3	....
Grains—								
1.—Wheat	1	....	....	....	1	....	....	1
2.—Rice	81	1,029	4	1,491	1,110	1,495	385	....
3.—Others	21	38	21	167	69	188	129	....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed ... ..	....	1	1	....	1	1	....	....
b.—Undressed ... ..	....	....	....	....	....	....	....	....
Leather, manufactured	4	1	5	6	5	11	6	....
Liquors—								
1.—Beer	1	....	2	....	1	2	1	....
2.—Wines	1	....	1	....	1	1	....	....
Metals—								
1.—Copper unwrought	1	....	....	....	1	....	....	1
2.—Iron	4	....	8	....	4	8	4	....
3.—Others	9	2	5	....	11	5	....	6
Oils—								
1.—Castor ... ..	....	....	1	....	....	1	1	....
2.—Kerosine	2	....	1	....	2	....	....	1
3.—Others ... ..	....	....	2	....	....	2	2	....
Provisions—								
1.—Ghee	3	....	4	....	3	4	1	....
2.—Dried fruits and nuts	2	....	3	....	2	3	1	....
3.—Others	75	....	29	....	75	29	....	46
Railway plant and rolling-stock	40	6	15	....	46	15	....	31
Salt	20	....	24	....	20	24	4	....
Oilseeds—								
1.—Linseed ... ..	....	....	....	37	....	37	37	....
2.—Mustard and rape	10	....	67	....	10	67	57	....
3.—Til or kingelly	1	....	2	....	1	2	1	....
4.—Others	2	....	5	....	2	5	3	....
Silk, raw—								
2.—Indian	89	25	15	18	114	38	....	81
Silk piece-goods—								
2.—Indian	1	5	....	5	6	5	....	1
Stone and lime	1	....	1	....	1	....	....	....
Sugar—								
1.—Drained	5	....	19	....	5	19	14	....
2.—Undrained	33	....	15	....	33	15	....	18
Tobacco ... ..	....	....	6	....	....	6	6	....
Paper and pasteboard	4	....	2	....	4	2	....	2
Umbrellas	1	....	....	....	1	....	....	1
All other articles of merchandise	34	7	53	....	41	53	12	....
Total	1,151	1,159	1,295	1,727	2,310	3,022	839	227

INCREASE.		Tons.
Coal ... ..	....	240
This increase is due to less import during the previous month.		
Cotton, raw ... ..	....	9
This increase is due to greater demand.		
Cotton piece-goods—(1) European ... ..	....	22
There being no sufficient water in the River Bhagirutty, the steamer service between Calcutta and Jessanj is stopped, and the merchants are bringing their goods by rail; hence the increase.		
Grains—(2) Rice ... ..	....	385
This increase is due to greater despatches from the intermediate stations owing to good crops and favourable demands this year.		
(5) Others ... ..	....	129
The increase under this head is due to greater demands for coolie.		
Oilseeds.—(1) Linseed ... ..	....	37
The river communication being stopped, the merchants are bringing their goods by rail; hence this increase.		
(2) Mustard and rape ... ..	....	57
The river communication being stopped, the merchants are bringing their goods by rail; hence this increase.		
Sugar.—(1) Drained ... ..	....	14
This increase is due to river communication being stopped, the merchants are bringing their goods by rail.		
DECREASE.		Tons.
Jute—(1) Raw ... ..	....	38
This decrease is due to dull market.		
Provisions.—(3) Others ... ..	....	46
This decrease is due to potatoes being less imported during the month.		
Railway plant and Rolling-stock ... ..	....	31
This decrease is due to less materials being carried during the month.		
Silk, raw (Indian) ... ..	....	81
This decrease is due to less import of tussar cocoons this year.		
Sugar.—(2) Undrained ... ..	....	18
This decrease is due to less demand.		

B. G. MOOKERJEE, Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 24th March 1888, on 1,513½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	237,852*	2,46,413 5 0*	27,05,980 0	6,32,527 13 0	22,673 5 0	9,41,093 7 0	64,854	58,504	1,23,358
Or per mile of railway ...	157 3 2	159 3 2	1788 0	417 13 8	14 15 8	622 0 6	.....	.....	.....
For previous 11 weeks of half-year ...	2,050,958	35,05,678 11 0	3,04,15,519 30	73,25,818 12 9	2,11,910 5 4	1,10,75,197 13 1	732,220	1,164,012	1,896,232
Total for 12 weeks ...	3,188,810	37,52,011 0 0	3,31,19,499 30	79,58,376 9 9	2,66,884 10 4	1,20,17,101 4 1	797,074	1,222,514	2,019,588
COMPARISON.									
Total for corresponding week of previous year ...	245,015	2,13,199 12 0	28,22,126 29	6,73,574 6 5	19,926 13 1	10,06,091 15 6	72,164	114,069	186,233
Per mile of railway corresponding week of previous year ...	162 0 11	140 11 11	1788 0	443 6 11	13 1 11	662 11 9	.....	.....	.....
Total to corresponding date of previous year ...	3,008,783	36,17,656 3 19	3,17,30,126 10	81,39,546 9 9	2,24,763 4 7	1,19,81,946 2 2	821,924	1,328,449	2,150,373

* The decrease in coaching traffic is chiefly in Government traffic, and to some extent in Gya pilgrims owing to the time being inauspicious.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 20th MARCH 1887.			RECEIPTS FOR WEEK ENDING 24th MARCH 1888.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 24th MARCH 1887.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 24th MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile mileage worked.	Mean mileage worked.	Receipts.	Per mile mileage worked.	Mean mileage worked.	Total receipts.	Per mile mileage worked.	Mean mileage worked.	Total receipts.	Per mile mileage worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
159	19,95,612	68	1,513½	9,41,093	622	1,513½	4,02,09,803	589	1,513½	4,51,89,805	588	.....	7,71,058

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 24th March 1888, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,895*	7,622 9 0*	63,490 10	4,025 3 0	51 0 0	11,715 12 0	1,916	478	2,394
Or per mile of railway ...	243	132 9 0	1,115 0	70 5 11	0 14 3	204 13 2	.....	.....	.....
For previous 11 weeks of half-year ...	124,126	87,322 6 0	3,34,188 30	22,031 3 0	468 5 0	1,07,821 14 0	26,202	6,474	32,676
Total for 12 weeks ...	178,021	94,951 15 0	3,97,678 0	26,956 6 0	519 5 0	1,19,337 10 0	28,118	6,952	35,070
COMPARISON.									
Total for corresponding week of previous year ...	22,038	13,491 1 4	1,10,112 20	3,815 4 0	74 4 0	17,290 9 4	1,767	1,319	3,086
Per mile of railway corresponding week of previous year ...	385	234 4 7	1,935 10	66 11 2	1 4 9	302 4 6	.....	.....	.....
Total to corresponding date of previous year ...	175,615	90,989 2 8	7,08,281 20	38,746 8 9	671 1 3	1,38,596 12 8	21,959	11,006	32,965

* The decrease in coaching traffic is chiefly in Government traffic, and to some extent in Gya pilgrims owing to the time being inauspicious.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 20th MARCH 1887.			RECEIPTS FOR WEEK ENDING 24th MARCH 1888.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 24th MARCH 1887.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 24th MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile mileage worked.	Mean mileage worked.	Receipts.	Per mile mileage worked.	Mean mileage worked.	Total receipts.	Per mile mileage worked.	Mean mileage worked.	Total receipts.	Per mile mileage worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
57½	17,291	302	57½	11,716	205	57½	5,41,107	185	57½	4,98,596	171	.....	42,521

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 24th March 1888, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,831	473 12 0	16,424 10	321 4 0	12 8 0	807 9 0	320	164	484
Or per mile of railway ...	.....	39 7 8	.....	26 12 5	1 0 8	67 4 9	.....	.....	.....
For previous 11 weeks of half-year ...	31,510	5,319 11 0	2,43,463 30	5,319 15 0	104 11 0	10,774 5 0	3,735	1,633	5,428
Total for 12 weeks ...	34,341	5,793 7 0	2,59,888 0	5,671 4 0	117 3 0	14,581 14 0	4,065	1,837	5,922
COMPARISON.									
Total for corresponding week of previous year ...	2,765	470 1 7	19,511 30	437 12 0	11 0 0	918 13 7	320	154	474
Per mile of railway corresponding week of previous year ...	.....	39 2 10	.....	36 7 8	0 14 8	76 9 2	.....	.....	.....
Total to corresponding date of previous year ...	35,501	5,962 7 9	2,15,976 20	6,067 5 0	94 11 9	12,154 8 6	4,150	1,837	5,987

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 26TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 26TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
12	919	77	12	808	67	12	47,295	77	12	47,110	77	.....	185

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 24th March 1888, on 74 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,362	4,268 4 0	88,414 30	4,163 10 0	129 9 0	8,401 7 0	693	1,285	2,031
Or per mile of railway ...	.....	57 4 2	.....	55 8 6	1 11 8	113 8 4	.....	.....	.....
For previous 11 weeks of half-year ...	56,615	42,548 12 0	9,88,518 10	47,072 15 0	1,405 2 0	91,026 13 0	7,342	17,747	25,089
Total for 12 weeks ...	61,977	46,757 0 0	10,76,933 0	51,226 9 0	1,534 11 0	99,518 4 0	8,635	19,054	27,121
COMPARISON.									
Total for corresponding week of previous year ...	6,393	5,233 4 4	95,529 0	3,868 2 0	104 15 9	9,224 6 1	781	1,146	1,927
Per mile of railway corresponding week of previous year ...	.....	69 15 5	.....	51 15 8	1 6 6	123 5 7	.....	.....	.....
Total to corresponding date of previous year ...	69,644	53,208 1 11	12,96,493 30	60,696 5 6	1,253 2 9	1,15,167 10 2	9,140	15,177	24,317

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 30TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
74	9,226	123	74	8,401	114	74	3,99,951	105	74	4,34,125	114	34,174	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 24th March 1888, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	18,058	5,495 4 0	8,165 30	300 1 0	7 6 0	5,862 11 0	876	92	968
Or per mile of railway	.....	246 15 8	.....	13 7 9	0 5 4	260 12 9	.....	.....	.....
For previous 11 week of half-year	224,562	58,839 9 0	96,410 30	3,247 8 0	67 13 0	62,154 14 0	9,890	890	10,780
Total for 12 weeks	242,620	64,334 13 0	1,04,574 20	3,547 9 0	75 3 6	67,957 9 0	10,760	982	11,742
COMPARISON.									
Total for corresponding week of previous year	21,436	5,618 12 8	11,101 0	399 6 0	4 0 3	6,022 2 11	909	59	968
Per mile of railway corresponding week of previous year	.....	252 8 6	.....	17 15 2	0 2 11	270 10 7	.....	.....	.....
Total to corresponding date of previous year	245,474	63,500 2 4	1,05,573 10	3,452 8 0	78 6 3	67,031 0 7	11,501	577	12,078

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 26TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 26TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
22½	6,022	271	22½	5,803	261	22½	2,43,734	215	22½	2,61,140	230	17,412	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 17th March 1888, on 676 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	112,276	67,127 0 0	4,30,814 0	71,105 0 0	12,794 0 0	1,51,026 0 0	23,632	24,090	48,232
Or per mile of railway	166	99 0 0	651 0	105 0 0	3 0 0*	207 0 0	.....	.....	.....
For previous 10 weeks of half-year	1,321,063	7,30,927 0 0	56,48,000 0	9,55,588 0 0	1,47,964 0 0	18,31,479 0 0	2,25,454	929,486	451,940
Total for 11 weeks	1,433,329	7,98,054 0 0	60,87,823 0	10,26,693 0 0	1,60,758 0 0	19,85,505 0 0	240,086	254,086	503,172
COMPARISON.									
Total for corresponding week of previous year	120,039	61,734 0 0	4,42,372 0	61,060 0 0	12,675 0 0	1,35,378 0 0	20,062	17,737	37,799
Per mile of railway corresponding period of previous year	213	102 0 0	730 0	101 0 0	2 0 0*	203 0 0	.....	.....	.....
Total to corresponding date of previous year	1,556,214	7,41,636 0 0	62,63,054 0	9,30,681 0 0	1,45,405 0 0	18,17,722 0 0	241,473	230,701	481,174

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of Gross Receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
608	1,35,378	223	676	1,51,026	223	608	81,22,702	208	648	92,81,036*	287	11,61,244	.....

* Audited up to 31st December 1887.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 17th March 1888, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	24,332	9,190 0 0	55,180 0	4,845 0 0	32 0 0	14,067 0 0	3,600	1,333	5,403
Or per mile of railway ...	195	74 3 0	441 0	39 0 0	.....	113 0 0	.....	.....	.....
For previous 10 weeks of half-year ...	257,140	91,800 0 0	4,95,061 0	44,464 0 0	700 0 0	1,36,964 0 0	51,871	17,352	52,223
Total for 11 weeks ...	281,472	1,00,990 0 0	5,50,241 0	49,309 0 0	732 0 0	1,51,031 0 0	58,511	19,185	57,716
COMPARISON.									
Total for corresponding week of previous year ...	24,302	9,225 0 0	40,933 0	3,487 0 0	28 0 0	12,740 0 0	3,468	1,742	5,210
Per mile of railway corresponding period of previous year ...	195	74 0 0	339 0	28 0 0	.....	102 0 0	.....	.....	.....
Total to corresponding date of previous year ...	233,568	90,903 0 0	5,63,953 0	24,132 0 0	570 0 0	1,21,605 0 0	39,380	18,346	58,532

* Audited up to week ending 14th January 1888.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,740	102	125	14,067	113	125	5,50,595	88	125	6,45,042*	103	91,447	.....

* Audited up to week ending 14th January 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 17th March 1888, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,532	4,253 0 0	11,672 0	800 0 0	60 0 0	5,113 0 0	2,141	963	3,104
Or per mile of railway ...	169	49 0 0	135 0	9 0 0	1 0 0	59 0 0	.....	.....	.....
For previous 10 weeks of half-year ...	186,952	50,587 0 0	1,00,032 0	15,595 0 0	708 0 0	66,890 0 0	26,905	9,481	30,386
Total for 11 weeks ...	191,484	54,840 0 0	1,80,634 0	16,395 0 0	768 0 0	72,065 0 0	29,046	10,444	33,490
COMPARISON.									
Total for corresponding week of previous year ...	13,721	4,763 0 0	4,904 0	779 0 0	74 0 0	5,616 0 0	2,647	1,480	4,127
Per mile of railway corresponding period of previous year ...	160	55 0 0	57 0	9 0 0	1 0 0	65 0 0	.....	.....	.....
Total to corresponding date of previous year ...	142,001	50,792 0 0	2,26,312 0	20,590 0 0	2,333 0 0	73,735 0 0	24,601	13,163	37,764

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 19TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,616	65	86	5,113	59	86	2,69,048	63	86	2,98,575*	69	29,527	.....

* Audited up to week ending 31st December 1887.

ASSAM-BEHAR STATE RAILWAY.

(PUANEH SECTION.)

Approximate Return of Traffic for week ended 17th March 1888, on 39 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,582	751 0 0	21,258 0	2,204 0 0	33 0 0	2,988 0 0	546	546	1,092
Or per mile of railway ...	66	19 0 0	522 0	57 0 0	1 3 6	77 0 0	.....	.....	.....
For previous 11 weeks of half-year ...	29,920	10,432 0 0	2,15,606 0	20,654 0 0	148 3 0	50,631 0 0	5,460	5,460	10,920
Total for 11 weeks ...	32,512	11,184 0 0	2,39,864 0	22,258 0 0	178 0 0	33,622 0 0	6,006	6,006	12,012
COMPARISON.									
Total for corresponding week of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per mile of railway corresponding period of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total to corresponding date of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Bihar State Railway.

RECEIPTS FOR WEEK ENDING 10TH MARCH 1887.				RECEIPTS FOR WEEK ENDING 17TH MARCH 1888.				TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH MARCH 1887.				TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 17TH MARCH 1888.				Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.		
				Rs.	Rs.								Rs.	Rs.		Rs.	
.....	39	2,988	77	.....	.....	.....	39	1,26,750*	62	.....	1,26,750	.....	.....	.....	.....

* Audited up to week ending 31st December 1887

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 24th March 1888, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,099	1,087 0 3	21,111 20	1,141 12 0	18 4 0	2,247 0 3	509	254	763
Or per mile of railway ...	111	39 14 0	775 0	41 14 0	0 11 0	42 7 0	.....	.....	.....
For previous 11 weeks of half-year ...	36,506	13,810 15 9	2,07,012 20	10,712 4 0	317 12 0	24,840 15 0	5,590	4,087	10,296
Total for 11 weeks ...	39,605	14,898 0 0	2,28,124 0	11,854 0 0	336 0 0	27,088 0 0	6,109	4,041	11,049
COMPARISON.									
Total for corresponding week of previous year ...	3,037½	1,185 0 0	8,600 10	327 0 11	87 13 0	1,599 14 8	509	417½	926½
Per mile of railway corresponding week of previous year ...	111	43 8 0	316 0	12 0 0	3 3 0	58 11 0	.....	.....	.....
Total to corresponding date of previous year ...	37,600½	13,977 15 8	1,76,715 0	9,489 8 11	393 4 4	23,800 12 11	6,180	4,717	10,897

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 20TH MARCH 1887.				RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.				TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 20TH MARCH 1887.				TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.				Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.		
	Rs.	Rs.		Rs.	Rs.					Rs.	Rs.		Rs.	Rs.		Rs.	
27½	1,000	59	27½	2,247	82	27½	86,872	62	27½	96,834	69	.....	8,862	.....	.....	.....	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 24th March 1888, on 259 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 259 miles open	38,749	15,969 6 11	2,02,404 30	20,829 6 0	3,100 4 11	39,999 1 10	5,804	7,800	13,707
Or per mile of railway	150	61 11 0	781 0	80 7 0	2 11 0	154 15 0*	22 4	30 0	52 4
For previous 11 weeks of half-year	473,417	1,91,548 9 1	22,89,470 10	2,37,057 10 0	37,829 11 1	4,06,834 14 2	71,975	95,714	166,689
Total for 12 weeks	512,166	2,07,518 0 0	24,91,872 0	2,57,897 0 0	40,928 0 0	5,06,763 0 0	78,633	101,527	180,400
COMPARISON.									
Total for corresponding week of previous year on 216 miles open	36,689	14,563 11 7	1,59,291 10	16,459 13 6	4,042 8 2	35,011 1 3	5,161	6,296	11,757
Per mile of railway corresponding week of previous year	169	67 6 0	738 0	76 11 0	18 8 0	162 0 0*	23 9	29 0	52 9
Total for corresponding date of previous year	449,381	1,80,906 1 4	19,11,176 10	1,93,929 12 6	38,106 9 6	4,13,032 7 4	67,833	87,625	135,458

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 26TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 26TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.			Total increase in 1887-88.	Per cent. increase in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
246	35,011	142	259	39,999	154	216	15,81,772	126	259 15	18,11,427	141	2,29,655	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 17th March 1888	...	...	...	...	...	8 134
Corresponding week last year	...	...	...	...	...	7 120
Increase	...	...	...	...	...	1 005
Receipts from 1st January to 17th March 1888	...	...	...	...	...	79 175
From 1st January to 19th March 1887	...	...	...	...	...	67 522
Increase	...	...	...	...	...	12 653
Miles open, week ending 17th March 1888	...	...	...	...	...	Miles. 51
Corresponding week last year	...	...	...	...	...	51
Receipts per mile open, week ending 17th March 1888	...	...	...	...	...	Rs. A. P. 159 7 10
Corresponding week last year	...	...	...	...	...	159 12 6
Increase	...	...	...	...	...	10 11 4



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, APRIL 11, 1888.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
RAINFALL, Weather, and State and Prospects of the Crops	718	ABSTRACT of the results of the Thermometric Observa-	
Statement showing the Stocks of rice in and around Calcutta	720	tions taken at the Meteorological Office, Chowringhee,	
Statement showing the Quantities of the Principal Staples		in the month of March 1888	730
of Traffic Imported and Exported into Calcutta from the		Results of the Thermometrical Observations taken at the	
interior during the month of January 1888	721	Meteorological Office, Chowringhee, from 1st to 7th	
Prices-current (retail) of Food-grains, Firewood and		April 1888	730
salt in the Head-quarter Station Bazaars of the districts		Statement showing the Results of the Registration of	
of Bengal during the fortnight ending the 31st March		Deaths in the Districts in Bengal for the month of	
1888	724	January 1888	751
Meteorological Report of the Province of Bengal for		Statement showing the Results of the Registration of	
the month of March 1888	730	Births and Deaths in the Principal Municipalities in	
Table of Rainfall recorded at Stations in Bengal in		Bengal during the week ending 24th March 1888... ..	754
March 1888	732	Areas leased for Irrigation up to end of February 1888	754
Abstract of the results of Meteorological Observations		South-Western Circle—Orissa Coast Canal System for the	
taken at the Alipore Observatory in the month of		month of February 1888... ..	758
March 1888	741	South-Western Circle—Nuddea Rivers during the month	
Meteorological Report of the Province of Bengal for		of February 1888	759
the week ending Friday, the 6th of April 1888	742	Circular and Eastern Canals for the week ending 7th	
Statement of Rainfall in Bengal for the week ending		April 1888	760
Friday (6 p.m.), the 6th of April 1888	744	Nalhati State Railway	761
Results of the Meteorological Observations taken at the		Weekly Return of Traffic Receipts on Indian Railways ...	762
Alipore Observatory from 1st to 7th April 1888	746		

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government during the week ending the 7th April 1888.

No.	District and date of return	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIVN.	1 Burdwan Culna Apl. 7, '88	0.03	Weather—seasonable. There are no crops but sesamum and sugarcane. Prospects good. Common rice 22 seers per rupee.
	2 Bankoora „ 7, '88	0.11	Weather—seasonable. Indigo, cotton, til and boro paddy coming on well. Lands are being prepared for sugarcane. Prices stationary.
	3 Beerbhoom „ 7, '88	Nil	Weather—warm. Sugarcane pressing nearly over; outturn good.
	4 Midnapur „ 7, '88	Nil	Weather—moderately warm. Crops doing well.
	5 Hooghly „ 7, '88	Nil	Weather—very hot. Rain now much wanted for boro dhan and mangoes and for ploughing.
	Howrah „ 9, '88	Nil	Weather—normal. Boro crop promises well.
<i>Central Districts.</i>			
PRESIDENCY DIVN.	6 24-Pergha Apl. 10, '88	Nil	Weather—hot and dry. No crops on the ground except sugarcane, which flourishes. Ploughing continues.
	7 Nuddea Ranaghat „ 7, '88	0.28	Weather—very sultry; nights foggy and damp. Rubbi harvest over; outturn fair throughout the district. Tillage for early rice in good progress. Indigo sowings large.
	8 Khoolna „ 7, '88	Nil	Weather—hot in daytime, cool south breeze at night. Boro rice promises well. Ploughing going on. Rain wanted.
	9 Jessore „ 7, '88	Nil	Weather—very hot, but cool mornings and evenings. Rain wanted for sowing of paddy and indigo. Prospects of boro in Narail good.
	10 Moorshedabad „ 7, '88	Nil	Weather—getting warmer. Sowing of bhadoi paddy going on. Reaping of rubbi crops over.
RAJSHAHY DIVN.	11 Dinagepur Apl. 7, '88	Nil	Weather—hot with strong west winds. Kowni, jute and bhadoi are being sown.
	12 Rajshahye „ 7, '88	Nil	Weather—very hot. Cutting of spring crops continues. Preparation of land for jute and paddy going on. Rain wanted.
	13 Rungpur „ „	...	Report not received.
	14 Bogra „ 7, '88	Nil	Weather—very hot and dry. High winds all day. State and prospects of crops good. Rain would be acceptable.
	15 Pubna „ 7, '88	Nil	Weather—hot. Rain wanted. Khesari, matar, linseed, gram and wheat almost harvested with poor outturn. Paddy and jute are being sown.
	16 Darjeeling „ 7, '88	Nil	Weather—fine. Rain much wanted for the growing crops in the hills. Ploughing for early rice continues in the plains. Prices steady.
	17 Julpigoree „ 7, '88	Nil	Weather—hot and bright. Ploughing for early rice in progress. Sugarcane is being planted. Common rice sells at 21 seers per rupee at the Sudder station.
<i>Eastern Districts.</i>			
DACCA DIVISION.	18 Dacca Apl. 7, '88	Nil	Weather—hot. Rubbi crops are still being gathered. Cultivation of land for paddy continues. Aus paddy and jute are being sown.
	19 Furreedpur „ 7, '88	Nil	Weather—hot. Prospects of crops satisfactory.
	20 Backergunge „ 6, '88	Nil	Weather—seasonable. Prospects of crops good.
	21 Mymensingh „ 6, '88	0.75	Weather—hot and sultry. Prospects of crops good.
	Kishoregunge „ „	0.42	
CHITTAGONG DIVN.	22 Chittagong Apl. 10, '88	0.04	Weather—seasonable. Prospects of standing crops fair. Prices uncharged.
	23 Noakholly „ 6, '88	Nil	Weather—seasonable. Rubbi crops mostly harvested; outturn fair. Sowing of aus has begun.
	24 Tipperah „ 5, '88	Nil	Weather—seasonable; cloudy and cool. Rain wanted. Standing crops getting on nicely. Preparation of lands and sowing of jute and paddy going on briskly.
	Brahmanbariah „ „	1.07	
	25 Chittagong Hill Tracts „ 3, '88	Nil	Weather—hot with fogs again in the early morning and late at night. Jam cutting nearly finished. Tobacco and chillies doing well.
	Hill Tipperah „ 4, '88	1.10	Weather—hot and windy. Lands are being prepared for early rice. Prospects of boro paddy and chillies fair.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
PATNA DIVN.	26 Patna Apl. 7, '88	Nil	Weather—hot and dry. <i>Rubbi</i> threshing and opium weighing in progress. Fields are being prepared for <i>cheena</i> crop. Prices of food-grains stationary.
	27 Gya „ 7, '88	Nil	Weather—seasonable. <i>Rubbi</i> being threshed. Weighing of opium begun. Sugarcane being irrigated.
	28 Shahabad „ 7, '88	Nil	Weather—hot with strong west wind generally at midday. Threshing of <i>rubbi</i> crops still in progress. Sugarcane being planted. Opium collection is over; weighments have begun; outturn expected to be excellent this year.
	29 Durbhunga „ 7, '88	Nil	Weather—hot. Threshing of <i>rubbi</i> crops progressing. Early rice and <i>moong</i> are being sown, and have germinated in parts. Indigo looks well. Prices remain stationary.
	30 Mozufferpur „ 7, '88	Nil	Weather—warm with west winds at midday. Harvesting of <i>rubbi</i> crops approaching completion. Rice, <i>moong</i> and <i>cheena</i> having germinated are thriving.
	31 Sarun „ 7, '88	Nil	Weather—seasonable. <i>Rubbi</i> crops all cut; outturn estimated at 13 annas. <i>Cheena</i> is being sown. Indigo is coming up well.
	32 Chumparun „ 7, '88	Nil	Weather—fair and moderately hot; very strong wind prevails. Harvesting of <i>rubbi</i> crops almost finished; they are mostly on threshing floor. Weighment of opium commenced. Indigo sowings are above ground. Fields are being prepared in the Bettiah sub-division for <i>bhadoi</i> and <i>aghani</i> sowings.
BHAGULPORE DIVN.	33 Monghyr Apl. 7, '88	0.02	Weather—hot and dry; west wind prevailing. Harvesting of <i>rubbi</i> crops nearly finished. Threshing has commenced. Prospects of mango crop continue good.
	34 Bhagulpur „ 7, '88	Nil	Weather—seasonable. <i>Rubbi</i> harvest nearly complete. Rain wanted for cultivation and sowing. Sugarcane seedlings doing well.
	35 Purneah „ 7, '88	Nil	Weather—warm. West wind prevails. <i>Rubbi</i> crops nearly harvested. <i>Bhadoi</i> , <i>moong</i> and jute being sown. Rain would do good.
	36 Maldah „ 7, '88	Nil	Days very hot, but nights still fairly cool. High west winds. The long-continued drought is becoming rather serious, especially for the <i>boro</i> and <i>bhadoi</i> paddy. The harvest of <i>rubbi</i> crops is nearly over. The outturn would have been good but for the drought, and is now probably not more than 12 annas. Common rice selling at an average of 23½ seers per rupee.
	37 Sonthal Pergis. „ 7, '88	Nil	Weather—hot with high west winds. Rain wanted for sugarcane. Want of rain has spoilt indigo and <i>rubbi</i> crops except wheat and linseed, which are good. Mango and <i>mohua</i> doing well.
ORISSA.			
ORISSA DIVN.	38 Cuttack Apl. 6, '88	Nil	Weather—hot. Ploughing for <i>beali</i> and <i>sarad</i> rice going on, but rain wanted. Cotton in flower. Rice is sold at 20 seers per rupee in town.
	39 Pooree „ 5, '88	Nil	Weather—seasonable; occasionally cloudy with high winds. Ploughing for <i>sarad</i> crop going on. <i>Dalua</i> crop being harvested. <i>Rubbi</i> being gathered. <i>Dalua</i> and miscellaneous crops including mango are in want of water in the Khoorda sub-division. Common rice 24 seers 12 chittacks per rupee in the Sudder sub-division and 25 seers 4 chittacks in the Khoorda sub-division.
	40 Balasore „ 6, '88	0.44	Weather—seasonable. Cultivation going on. Few crops on the ground.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIVN.	41 Hazaribagh, Apl. 6, '88	Nil	Weather—seasonable; very warm. <i>Mohua</i> yielding indifferently in parts of the district. Prospects of mango generally good. Condition of agricultural stock fair on the whole. Prices steady.
	42 Lohardugga „ 7, '88	Nil	Weather—hot. <i>Mohua</i> crop good. Harvesting of <i>rubbi</i> going on. Prices steady.
	43 Singbhoom „ 6, '88	0.08	Weather—variable. Slight rain during the week. <i>Rubbi</i> being harvested with fair results. Cotton yielding well. Sugarcane being planted.
	44 Manbhoom „ 7, '88	Nil	Weather—hot and dry; considerably hotter than last year. Wheat and barley being harvested; ten annas outturn expected. Sugarcane being planted. <i>Mohua</i> and lac expected to do very well.

Published for general information.

CALCUTTA, REVENUE DEPT.;
The 10th April 1888.P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARKS.	STOCK IN HAND AS COMPILED ON—												
	1st week of April 1887.	1st week of May 1887.	1st week of June 1887.	1st week of July 1887.	1st week of August 1887.	1st week of Sept. 1887.	1st week of Oct. 1887.	1st week of Nov. 1887.	1st week of Dec. 1887.	1st week of Jan. 1888.	1st week of Feb. 1888.	1st week of Mar. 1888.	1st week of April 1888.
Balinghatta	Mds. 14,01,000	Mds. 12,47,000	Mds. 10,36,700	Mds. 7,61,000	Mds. 6,72,000	Mds. 5,51,000	Mds. 5,13,000	Mds. 4,66,000	Mds. 3,42,000	Mds. 3,37,000	Mds. 7,84,000	Mds. 8,54,000	Mds. 10,07,000
Ooladanga	73,400	66,800	43,600	73,000	53,600	67,000	66,100	63,900	70,400	78,000	75,900	87,706	1,61,200
Chitpore, Golabaree, Coomer- toor, Hathbala, and Culp- Ghat.	7,37,100	6,58,200	6,16,600	8,86,000	6,17,200	5,28,500	6,14,500	6,12,100	8,47,800	5,74,800	4,82,200	6,00,100	6,61,500
Pashuribhatta, Posta, and Jorabagan.	5,300	5,000	8,000	3,000	2,000	2,500	3,000	4,000	5,000	5,000	4,000	3,700	5,000
Tallypore, Chitliak, Kiddlepore, and Moonbhigunge.	1,79,900	1,56,000	1,24,300	1,11,700	1,07,800	1,07,100	1,06,500	90,400	88,100	1,20,700	1,47,600	1,98,100	1,96,600
21 Minor Bazaar (estimated) ...	3,40,000	2,40,000	2,40,000	2,40,000	2,46,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 2,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boldyabatty, Nowabgunge, Shudhramur, and Chander- nagore.	6,142	6,648	8,775	6,430	34,740	51,262	40,739	30,616	21,031	27,629	12,194	9,277	12,842
Total ...	29,01,743	26,49,648	23,39,475	20,30,130	19,77,340	17,98,362	18,36,839	17,66,016	16,44,331	16,93,129	19,95,894	22,48,577	25,37,143
On Railway premises on both sides of the river.	9,883 (on 4th April 1887.)	12,914 (on 4th May 1887.)	9,484 (on 4th June 1887.)	6,196 (on 4th July 1887.)	4,244 (on 4th August 1887.)	18,938 (on 3rd September 1887.)	6,722 (on 10th October 1887.)	7,610 (on 4th Nov. 1887.)	4,532 (on 5th Dec. 1887.)	15,025 (on 4th January 1888.)	12,423 (on 3rd Feb. 1888.)	22,936 (on 3rd Mar. 1888.)	22,345 (on 4th April 1888.)
On boats un- loaded ...	54,817 (1st to 3rd April 1887.)	18,523 (1st to 3rd May 1887.)	18,523 (1st to 3rd June 1887.)	27,270 (1st to 3rd July 1887.)	79,980 (1st to 3rd August 1887.)	50,919 (1st to 3rd September 1887.)	43,466 (1st to 3rd October 1887.)	23,645 (1st to 3rd Nov. 1887.)	45,456 (1st to 3rd Dec. 1887.)	80,965 (on 3rd to 5th January 1888.)	83,731 (1st to 3rd Feb. 1888.)	70,553 (1st to 3rd March 1888.)	46,846 (1st to 3rd April 1888.)
By Canal returns	81,375 (1st to 3rd April 1887.)	36,255 (1st to 3rd May 1887.)	17,539 (1st to 3rd June 1887.)	24,701 (1st to 3rd July 1887.)	23,344 (1st to 3rd August 1887.)	51,107 (1st to 3rd September 1887.)	52,320 (1st to 3rd October 1887.)	45,191 (1st to 3rd Nov. 1887.)	51,327 (1st to 3rd Dec. 1887.)	1,42,639 (1st to 3rd Jan. 1888.)	2,13,833 (1st to 3rd Feb. 1888.)	1,91,057 (1st to 3rd March 1888.)	85,659 (1st to 3rd April 1888.)
Grand Total of Stocks ...	30,47,837	27,17,307	23,75,350	20,88,237	20,89,908	19,21,318	19,39,367	18,42,468	17,45,646	19,40,659	23,06,916	25,38,453	26,91,992
Probable stock available for exportation by sea.	20 lakhs	16½ lakhs	13½ lakhs	10½ lakhs	10½ lakhs	8½ lakhs	8½ lakhs	8 lakhs	7½ lakhs	9½ lakhs	12½ lakhs	14½ lakhs	16½ lakhs.

STATISTICAL DEPARTMENT,
The 7th April 1888.

P. NOLAN,
Secretary to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of January 1888.

IMPORTS INTO CALCUTTA.

Place imported.	FOOD-GRAINS.						FIBROUS PRODUCTS.		OIL-SEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.		
	RICE AND PADDY.			Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny-bags, †	Linseed.				Mustard-seed.	Drained.	Un-drained.	Bis-path.	Other kind.
	Rice.	Paddy.	Total (in rice).															
BENGAL.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	
Bahar ...	1,13,739	11,610	1,25,349	525	6,293	83	1,27,892	26,256	880	43	353	...	...	...	...	...	...
Bombay ...	92,223	...	92,223	...	331	...	92,554	11,585	2	...	...	...	...	...	...	...	...
Bombay ...	3,39,304	20,478	3,59,782	...	128	...	3,59,910	140	1,401	...	...	...	...	...	...	...	...
Bombay ...	73,094	3,055	76,149	3,793	3,707	78	82,930	25,390	400,798	22,555	350	...	...	...	...	...	...
Bombay ...	4,79,754	61,730	5,41,484	51	6,954	...	5,48,435	65,809	782,213	...	3	2,585	...	10,585	42,807	...	...
Bombay ...	11,248	...	11,248	13,092	1,16,570	2,432	1,31,112	5,505	2,545	13,423	624	...	...	...	...	...	...
Bombay ...	58,112	28,510	86,622	...	291	...	86,913	...	76,192	...	...	...	...	...	...	...	...
Bombay ...	1,49,862	10,720	1,60,582	...	11,608	...	1,68,590	18,270	245	...	...	...	...	...	...	...	...
Bombay ...	20,834	...	20,834	8,092	22,805	1,990	24,921	1,673	13,890	5,068	250	...	...	...	...	...	...
Bombay ...	6,802	...	6,802	...	232	...	7,034	43,689	57,975	...	...	...	...	...	...	...	...
Bombay ...	1,500	13	1,513	368	19,915	30	21,911	19,511	...	8,628	...	...	10	...	...	...	...
Bombay ...	394	...	394	...	...	...	394	66,118	87,590	...	...	40	...	...	...	...	...
Bombay ...	71,127	...	71,127	5	...	...	71,132	4,063	311,805	...	...	...	...	...	...	...	...
Bombay ...	1,775	...	1,775	782	20,027	...	22,594	2,22,368	...	331	368	...	...	...	...	...	...
Bombay ...	...	...	...	...	4	...	4	31,196	311,015	...	...	156	...	...	...	...	...
Bombay ...	13,408	450	13,858	...	8,278	...	22,677	2,15,063	175	151	...	...	6,562	...	...	...	...
Bombay ...	65,841	1,625	67,466	...	36,523	...	1,02,409	1,40,409	219	3,165	...	6	1,022	...	...	...	...
Bombay ...	11,86,960	1,550	11,88,510	...	2,800	14	11,89,782	2,650	...	77	...	...	...	...	...	...	...
Bombay ...	2,787	...	2,787	299	4,130	5	7,221	1,21,816	...	...	...	...	...	...	...	...	...
Bombay ...	15,569	...	15,569	...	...	...	15,569	...	...	...	...	...	...	...	...	...	...
Bombay ...	825	...	825	...	...	...	825	...	...	...	1,047	3,828	...	...	...	...	...
Bombay ...	18,954	...	18,954	...	...	...	18,954	...	...	...	...	...	...	...	...	...	...
Cal of Bengal ...	27,23,557	1,40,730	28,64,287	28,117	2,50,526	4,632	31,63,794	9,98,568	2,08,039	55,681	1,675	4,999	14,975	1,603	10,962	81,200	589	
BHAR.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	
Bahar ...	914	...	914	17,352	21,181	2,673	41,520	1,120	1,06,806	1,067	...	...	...	2	261	3,800	...
Bombay ...	...	...	...	2,813	...	...	2,813	...	630	11,507	...	...	...	...	...	...	...
Bombay ...	...	...	...	...	289	...	289	...	1,085	8,341	...	...	...	...	...	...	...
Bombay ...	4	...	4	...	...	...	4	...	603	...	...	...	...	...	...	...	...
Bombay ...	...	...	...	1,129	794	...	1,833	801	35	42,642	2,356	...	...	...	...	...	...
Bombay ...	...	...	...	...	...	...	...	...	1,015	1,608	...	...	...	...	...	...	...
Bombay ...	...	...	...	...	...	...	...	...	27,329	...	...	...	...	...	...	...	...
Bombay ...	2	...	2	35,570	10,217	...	45,787	...	770	4,152	...	...	...	...	...	...	...
Bombay ...	868	...	868	17,897	2,671	8,290	28,766	115	1,120	10,968	8,801	...	...	...	...	...	...
Bombay ...	1,308	...	1,308	4,381	3,965	183	8,729	2,774	25,240	2,740	8,127	...	...	...	...	...	...
Bombay ...	1,139	...	1,139	6,099	4,506	119	11,715	4,916	6,325	1,671	1,144	...	...	...	...	...	...
Bombay ...	628	...	628	5,791	7,382	487	14,260	...	1,120	7,918	15,627	...	...	...	...	...	...
Cal of Bihar ...	4,854	...	4,854	90,941	60,676	11,154	1,57,623	8,696	36,160	2,26,275	37,305	...	184	920	8,310	...	2,91	
ORISSA.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	
Bahar ...	48,788	...	48,788	240	...	...	49,028	1,691	...	...	...	...	...	...	...	...	...
Bombay ...	...	...	...	803	...	...	...	5,285	5,350	...	702	...	...	...	...	...	...
Cal of Orissa ...	48,788	...	48,788	1,042	...	...	49,830	6,580	3,350	...	702	...	...	...	...	...	...
MAHARASHTRA.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	
Bahar ...	...	...	...	...	1,809	...	1,809	...	420	...	80	...	...	...	...	...	...
Bombay ...	...	...	...	...	...	...	...	...	2,800	...	...	...	...	...	...	...	...
Cal of Chota ...	...	...	...	...	1,809	...	1,809	...	3,220	...	80	...	...	...	...	...	...
Bombay ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total of ...	27,77,199	1,40,730	28,05,161	1,20,100	3,12,011	15,786	33,13,058	10,14,244	2,11,089	2,81,950	39,582	5,079	14,975	1,815	11,509	89,519	589	
PROVINCES.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	
Bahar ...	2,450	...	2,450	...	...	...	2,450	9,049	35	3,556	47,516	2,780	28	...	...	...	...
Bombay ...	355	...	355	26,212	803	...	27,015	377	9,035	80,701	33,410	321	1,36,524	23	599	297	...	
Bombay ...	5	...	5	10,090	22	...	10,112	...	...	268	2,551	270	10,043	...	...	...	...
Bombay ...	...	...	...	4,823	...	...	4,823	...	...	206	205	...	...	...	...	...	...
Bombay ...	12	...	12	...	10	...	...	...	...	17,187	...	...	...	...	...	...	...
Bombay ...	...	...	...	14,914	...	...	14,914	...	10,600	...	...	...	...	...	...	...	...
Bombay ...	48	...	48	...	...	...	...	...	...	325	...	...	...	...	...	...	...
Bombay ...	3	...	3	...	97	...	...	...	...	...	...	...	...	...	...	...	...
Total of ...	27,90,072	1,40,730	28,05,161	1,20,100	3,12,011	15,786	33,13,058	10,14,244	2,11,089	2,81,950	39,582	5,079	14,975	1,815	11,509	89,519	589	
Imports ...	22,49,016	1,58,506	23,48,088	3,55,602	2,07,534	37,481	29,48,699	11,69,225	1,794,332	2,21,802	91,022	58,180	2,08,422	2,500	33,533	80,704	...	

* One maund of paddy is equivalent to 25 seers of rice. | † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of January 1888 was as follows:—

Imported from	Calcutta	Indian ports	Bombay	Other ports in India	Other ports in Europe	Other ports in America	Other ports in Africa	Other ports in Asia	Other ports in Australia	Other ports in New Zealand	Other ports in South America	Other ports in Central America	Other ports in the West Indies	Other ports in the Pacific	Other ports in the Atlantic	Other ports in the Indian Ocean	Other ports in the Arctic	Other ports in the Antarctic
Calcutta	4,60,761	80	4,60,780	...	16,927	180	4,77,487	...	1,320,350	...	361	...	1,073	...	...	...	...	...
Bombay	799	509	1,173	...	60	...	1,233	...	...	...	...	...	...	...	...	...	...	...
Other ports in India	19	...	...	...	3,719	80	4,837	...	...	...	...	...	...	...	...	...	...	...
Other ports in Europe	1,75,564	2,770	1,77,043	...	3,297	11	1,80,343	3,925	431,083	...	13	7	...	...	...	...	...	...
Other ports in America	10,740	...	10,740	1,814	17,067	444	30,105	214	2,180,000	...	69	127	4	833	180	...	...	...
Other ports in Africa	...	...	...	...	1,307	...	1,307	...	325,000	...	2	...	...	...	...	...	...	...
Other ports in Asia	...	...	...	...	403	50	453	...	77,200	...	...	...	...	...	...	...	...	...
Other ports in Australia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in New Zealand	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in South America	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in Central America	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in the West Indies	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in the Pacific	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in the Atlantic	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in the Indian Ocean	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in the Arctic	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in the Antarctic	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Calcutta	4,60,761	80	4,60,780	...	16,927	180	4,77,487	...	1,320,350	...	361	...	1,073	...	...	...	...	...
Bombay	799	509	1,173	...	60	...	1,233	...	...	...	...	...	...	...	...	...	...	...
Other ports in India	19	...	...	...	3,719	80	4,837	...	...	...	...	...	...	...	...	...	...	...
Other ports in Europe	1,75,564	2,770	1,77,043	...	3,297	11	1,80,343	3,925	431,083	...	13	7	...	...	...	...	...	...
Other ports in America	10,740	...	10,740	1,814	17,067	444	30,105	214	2,180,000	...	69	127	4	833	180	...	...	...
Other ports in Africa	...	...	...	...	1,307	...	1,307	...	325,000	...	2	...	...	...	...	...	...	...
Other ports in Asia	...	...	...	...	403	50	453	...	77,200	...	...	...	...	...	...	...	...	...
Other ports in Australia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in New Zealand	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in South America	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in Central America	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other ports in the West Indies																		

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported to Calcutta during the month of January 1888.

IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Drained.	Un-drained.	Bis-path.	Other kinds.
By country boats	Mds. 28,42,341	Mds. 1,33,795	Mds. 46,437	Mds. 1,58,825	Mds. 12,114	Mds. 4,37,387	No. 1,288,501	Mds. 50,402	Mds. 18,242	Mds.	Mds. 7,444	Mds. 372	Mds. 1,877	Mds. 30,246	Mds.	Mds. 8,511
.. river steamers	13,702	1	63	3,319	.....	2,36,879	.....	443	3,556	44,673	3,415	858	.....	.....	.....	23
.. rail { East Indian Railway.	1,56,438	595	77,055	67,530	4,495	.....	61,620	3,21,784	56,308	1,033	1,47,731	898	1,208	8,588	.....	54
.. rail { Eastern Bengal State Railway.	1,81,301	13	435	87,636	12	2,87,610	750,085	13,779	.....	6,533	4,885	239	.....	14,482	589	9,546
.. road	90,425	6,335	51	4,263	.....	62,660	26,793	.....	.....	.....	410	.....	9,249	36,470	.....	5,639
.. sea	45,810	.....	802	14,914	97	5,114	29,700	.....	1,027	1,048	19,433	16	49,754	.....	.....	17
Grand total of 1888	27,80,672	1,40,730	1,24,923	3,63,547	16,718	10,23,689	2,146,509	3,86,408	79,723	53,187	1,83,346	1,878	62,146	89,780	589	25,066
Imports in January 1887	22,49,013	1,68,506	3,55,602	2,97,534	37,481	11,09,225	1,794,382	2,21,802	91,022	58,186	2,08,422	2,506	33,533	81,704	.....	23,394

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of January 1888.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.	Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.				European.	Indian.				
BENGAL.							CHOTA NAGPORE.						
	Rs.	Rs.	Mds.	Mds.	Mds.	No.		Rs.	Rs.	Mds.	Mds.	Mds.	No.
Burdwan	2,72,795	220	309	1,350	28,271	74,453	Hazrati	48,510	.....	.....	151	4,990	1,340
Beerbhoom	1,25,244	.....	138	244	15,097	.....	Manbhoon	44,037	.....	71	1,167	8,801	1,548
Midnapore	2,40,342	.....	3,425	.....	19,300	116,375	Total of Chota Nagpore	92,547	.....	71	1,318	13,791	3,888
Hooghly	1,22,259	2,767	64	199	2,178	86,775	Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal	74,30,902	34,481	15,908	9,857	5,06,750	1,208,170
14-Pergunnahs	1,81,927	10,624	430	.....	8,756	29,008							
Nudda	3,63,276	.....	1,704	185	23,082	40,131							
Khulna	68,557	.....	83	.....	6,685	5,110	OTHER PROVINCES.						
Jessore	98,730	.....	817	.....	17,215	6,290	Assam	3,85,304	.....	86	168	32,443	40
Moorshedabad	49,351	10,560	91	17	6,824	22,555	North-Western Provinces and Oudh	19,73,979	22,550	3,774	405	89,434	201,583
Dinapore	1,60,507	.....	21	31	2,706	5,495	Punjab	5,82,687	24,649	905	36	.....	208,329
Kajshahye	91,980	.....	16	24	9,359	29,595	Central Provinces	24,005	.....	167	22	.....	65,880
Rungpore	2,94,966	.....	117	157	13,217	590	Rajputana States	19,404	10,230	100	9	.....	1,340
Bogra	1,48,860	.....	82	284	7,227	69,020	Bihar	189	.....	.....	.....	.....	17,000
Fudna	1,98,215	.....	.....	.....	20,020	2,565	Nizam's Territory	.....	.....	.....	1	.....	.....
Darjeeling	37,206	.....	79	62	3,960	.....	Bombay	4,400	1,310	.....	9	.....	1,362,330
Jalpigoree	83,790	.....	13	27	8,605	840	Madras	1,41,050	1,604	1,018	263	.....	612,332
Dacca	6,96,760	80	469	1,374	21,074	4,319	Pondicherry	1,324	.....	.....	.....	.....	77,300
Furzedpore	4,71,892	.....	1,121	401	14,958	11,335	Burmah	4,00,553	225	848	1,867	.....	2,186,000
Backergunge	1,31,417	.....	53	.....	28,329	250	Sind	630	770	.....	918	.....	6,081,330
Mymensingh	68,544	.....	28	6	11,100	.....	Other places	8,689	2,575	10	.....	.....	.....
Tipperah	.....	.....	.....	.....	4,175	.....	Grand Total of 1888	1,09,73,182	98,208	22,806	13,585	5,78,633	11,964,340
Chittagong	1,08,947	.....	188	.....	1,425	100	Exports in January 1887	94,40,990	36,045	22,164	9,590	7,32,179	15,661,720
Noakhali	8,132	.....	90	.....	1,425	100	The Sea-borne Trade of Calcutta in these Staples during the month of January 1888 was as follows:-						
Total of Bengal	39,33,603	24,251	9,783	4,369	2,72,625	638,387	IMPORTED INTO CALCUTTA-						
BEHAR.								Rs.*	Rs.	Mds.	Mds.	Mds.	No.
Patna	3,60,066	990	246	305	48,097	91,788	From Foreign Ports-	.....	.....	.....	.....	.....	.....
Gya	1,52,208	5,839	16	314	11,920	8,995	United Kingdom	98,55,005	.....	17,220	.....	7,86,046	5,000
Shahabad	2,40,156	880	31	504	12,052	36,925	Other Foreign ports	88,288	.....	346	.....	1,82,111	50
Monroepore	1,56,646	.....	18	2,891	5,040	6,040	Total of Foreign Trade	99,41,293	.....	17,566	.....	8,38,156	5,050
Burhanga	5,09,922	600	1	871	30,642	61,815	From Indian Ports-	.....	.....	.....	.....	.....	.....
Barun	2,85,642	.....	3	74	7,108	1,080	Bombay	47,450	83,786	.....	9,338	89,379	19,000
Chumperun	5,70,987	.....	146	11,033	43,435	43,435	Madras	3,800	6,909	.....	112	.....	.....
Monghyr	1,49,814	.....	14	281	11,301	20,835	Burmah	2,180	990	.....	.....	.....	.....
Bhagulpore	2,83,374	220	40	216	19,782	34,405	Other Indian ports	.....	390	.....	.....	.....	.....
Burneah	1,03,662	.....	35	693	17,658	4,525	Total of Interport Trade	53,440	91,075	.....	9,470	89,870	23,000
Maldah	700	.....	.....	.....	6,746	2,600	Grand Total of Im- of 1888	99,94,733	91,075	17,566	9,470	10,27,535	29,700
Benthal Pergunnahs	3,25,521	1,659	162	507	24,403	69,230	ports in January 1887	78,20,636	43,012	13,278	6,338	643,556	11,000
Total of Behar	31,94,737	10,230	648	3,731	2,05,741	391,355	* As per tariff declaration value.						
ORISSA.													
Balasore	2,10,010	.....	5,500	478	14,599	186,380							

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of January 1888.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	2,40,680	1,028	4,088	.....	2,21,074	185,370
.. river steamers	6,48,800	.....	800	763	17,288	36,870
.. rail { East Indian Railway	68,16,005	80,410	6,091	7,182	2,78,010	1,038,580
.. rail { Eastern Bengal State Railway	20,75,358	.....	3,813	1,974	60,061	181,370
.. road	2,10,653	11,845	651	131	5,976	8,300
.. sea	8,74,044	4,997	7,870	3,635	12,549	28,481
Grand Total of Exports in January	1,09,73,182	95,948	23,806	18,345	5,78,633	11,964,340
1887	94,40,990	36,045	22,164	9,590	7,32,179	15,661,720

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
31st MARCH 1888.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM (Sorghum Vulgare.)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
BENGAL.																
Western Districts.																
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Durdwan ...	15 0	13 4	14 8	30 0	...	...	18 15	19 8	19 8	24 0	24 6	23 4	...	...	...
2	Bankoora ...	15 0	14 8	16 8	20 0	19 0	22 0	19 8	19 8	20 0	22 0	20 7	14 4	...	...	...
3	Beerbhoom ...	16 8	13 8	22 8	...	...	...	15 0	15 12	21 0	21 12	21 0	24 0	...	...	...
4	Midnapore ...	15 0	15 0	16 0	40 0	40 0	...	20 0	23 0	19 0	26 0	25 0	26 0	...	...	...
5	Hooghly ...	14 0	14 0	14 0	...	...	...	10 0	10 0	10 0	17 0	17 0	18 0	...	...	...
	Howrah ...	Not available.			...	...	...	14 4	14 0	13 8	20 0	20 0	20 0	...	...	...
Central Districts.																
	Calcutta ...	13 8	13 8	14 12	19 5	20 13	22 0	11 12	10 15	9 4	18 5	17 8	19 4	10 2	13 0	21 8
6	24-Pergunnahs ...	17 8	16 0	13 5	22 8	22 8	21 4	8 0	8 0	8 0	20 0	20 0	18 4	...	...	...
7	Nudda ...	16 8	16 0	15 0	32 0	32 0	32 0	14 8	14 8	16 0	18 14	19 0	19 0	...	...	...
8	Khoolna ...	...	...	...	...	...	...	21 0	21 0	18 0	22 0	23 0	21 0	...	...	...
9	Jessore ...	13 4	13 4	13 4	...	...	...	16 0	16 0	16 0	24 10	24 10	22 0	...	...	...
10	Moorshedabad ...	16 0	15 0	15 0	...	...	...	17 0	18 0	16 0	23 0	23 0	23 0	...	...	...
11	Dinapore ...	18 0	15 0	12 8	21 0	30 0	22 0	18 4	20 0	21 0	22 2	24 12	27 8	...	...	...
12	Rajahmbye ...	17 4	16 8	16 8	45 0	45 0	45 0	18 0	16 8	18 6	22 8	21 12	22 14	...	...	...
13	Rungpore ...	13 4	11 6	12 8	...	...	...	13 4	13 4	22 8	20 0	20 0	24 10	...	...	...
14	Bogra ...	15 0	15 0	17 4	...	...	...	15 0	16 0	15 12	23 4	20 4	24 0	...	...	...
15	Pubna ...	20 0	16 0	21 0	...	...	...	8 0	8 0	8 0	21 12	22 8	21 9	...	...	...
16	Darjeeling ...	10 0	10 0	8 0	11 0	11 0	10 0	5 0	5 0	5 0	14 0	14 0	14 0	...	...	...
17	Julpigoree ...	12 0	13 0	10 0	29 0	20 0	20 0	14 0	14 0	14 0	21 0	20 0	23 0	...	...	...
Eastern Districts.																
18	Dacca ...	14 8	14 8	12 8	40 0	40 0	26 0	19 8	19 12	16 0	25 0	25 0	19 0	...	...	...
19	Farreedpore ...	20 0	17 0	16 0	40 0	40 0	25 0	15 0	15 0	16 0	24 0	24 0	22 0	...	...	...
20	Backergunge ...	...	...	...	...	...	...	15 0	15 0	17 0	20 4	20 8	19 0	...	...	...
21	Mymensingh ...	13 12	13 12	13 0	...	...	...	13 0	12 0	19 0	18 8	18 0	16 0	...	...	...

A In sub-divisions retail prices of salt per rupee were:—Culina 10½ seers, Kameegunge 9½ seers.

B At Rampore Haut retail price of salt 11½ seers per rupee.

C In sub-divisions retail prices of salt per rupee were:—Ghatal 11 seers, Tumlook 8 seers and Contai 9 seers.

D In sub-divisions retail prices of salt per rupee were:—Serampore 10 seers, and Jehanabad 10 seers.

E In sub-divisions retail prices of salt per rupee were:—Baraset and Buarhat 9 seers, Diamond Harbour (at Kujikhat) 8 seers, Barrackpore 9½ seers.

F In sub-divisions retail prices of salt per rupee were:—Koochta 10 seers, Meharpore and Chanching 10½ seers, and Bagerhat 9½ seers.

G In sub-divisions retail prices of salt per rupee were:—Sankhira 9 seers, at Chittagong and Sandkhira 8 seers.

H In sub-divisions retail prices of salt per rupee were:—Jhoulia and Bagerhat 8 seers, and Bagerhat 9 seers.

BAJRA OR CUMBU. (<i>Pennisetum typho-</i> <i>ideum.</i>)		MAHUA OR RAGI. (<i>Eleusine Corocana.</i>)	
Present return.	Next preceding return.	Present return.	Next preceding return.
	Corresponding return of last year.		Corresponding return of last year.

S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
---	---	..	---	---	---
---	---	--	---	---	---
	---	---	---	---	--
---	---	--	---	.	--
-	-		-	---	--
---	---	---	---	---	---

[illegible][illegible]

KANGNI OR KAKUN. ITALIAN MILLET. (<i>Setaria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAY, OR SUNAGA. (<i>Cicer arislinum</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

4. Ch.	3. Ch.	3. Ch.	4. Ch.	S. Ch.	3. Ch.
...	25 8	23 4	24 0
...	16 0	16 0	19 8
...	35 0	22 8	26 0
...	17 0	17 0	18 0
...	19 0	19 0	18 8
...	21 0	20 0	23 8

12 4	12 13	19 0	20 4	18 3	19 4
16 0	13 5	...	22 13	21 4	21 4
...	...	...	26 10 4	22 14	26 10
...	...	...	16 0	16 0	16 0
...	...	...	23 8	20 0	21 4
...	...	...	26 0	23 0	26 0
...	...	...	15 12	16 0	19 0
...	...	...	24 0	21 0	26 4
...	...	...	16 0	14 8	20 0
...	...	...	15 0	15 0	15 0
...	...	...	26 4	18 12	20 0
...	...	...	11 0	11 0	11 0
...	...	...	16 0	18 0	15 4

...	...	...	16 0	16 0	15 0
...	...	...	18 0	15 0	16 0
...	...	...	13 0	13 0	15 0
...	...	...	13 8	13 8	15 0

Head-quarter station Bazars of the Districts of Bengal on the 31st March 1888.

															WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR THUR • CADJAN PEA (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
BENGAL.																Western Districts.		
No sale.			24 10	24 10	17 12	120 0	120 0	120 0	A	10 8	10 8	13 5	3 9 6	3 11 3	2 15 8	Burdwan.		
32 0	32 0	40 0	20 8	20 0	22 0	320 0	320 0	280 0	B	10 8	10 8	12 8	3 11 0	3 11 0	3 3 0	Bankoora.		
...	16 8	16 8	16 8	160 0	160 0	160 0	C	10 0	10 8	12 12	3 4 0	3 6 0	3 0 0	Beerbhoom.		
...	15 0	13 0	18 0	120 0	120 0	155 0	D	9 0	9 0	12 12	4 0 0	4 4 0	3 1 0	Midnapore.		
...	13 0	13 0	14 0	120 0	120 0	120 0	E	9 0	9 0	18 0	4 6 0	4 6 0	3 0 0	Hooghly.		
...	13 0	13 0	13 4	100 0	100 0	90 0	F	9 0	9 2	12 0	3 14 0	4 0 0	3 0 0	Howrah.		
Central Districts.																		
12 7	21 3	24 9	18 4	18 6	17 0	95 0	95 0	80 0	G	9 10	9 10	13 0	3 9 5	3 13 7	3 0 0	Calcutta.		
20 0	...	28 0	21 4	22 8	16 0	90 0	90 0	100 0	H	9 8	9 8	13 0	3 8 0	3 14 0	2 15 0	24-Pergunnahs		
...	24 10	24 10	19 0	...	...	...	I	9 2	9 2	11 10	4 0 0	4 0 0	3 0 0	Nuddea.		
...	160 0	160 0	160 0	J	8 0	8 0	10 8	.....	4 8 0	3 12 0	Khoolna.		
...	27 0	29 0	24 0	100 0	100 0	110 0	K	9 10	8 0	11 0	4 2 0	4 4 0	3 4 0	Jessore.		
...	...	40 0	23 0	23 0	21 0	200 0	200 0	160 0	L	11 6	11 0	12 0	3 8 0	3 10 0	3 5 0	Moorshedabad.		
...	18 0	18 0	...	160 0	160 0	160 0	M	9 12	9 12	11 8	4 0 0	3 15 0	3 5 0	Dinapore.		
...	16 0	16 0	16 4	240 0	240 0	240 0	N	9 0	8 4	12 0	4 0 0	4 5 4	3 4 0	Rajshahye.		
...	9 0	9 0	8 10	120 0	120 0	120 0	O	8 10	8 5	11 0	4 10 0	4 13 0	3 8 0	Buckpore.		
...	90 0	90 0	90 0	P	8 4	8 4	11 4	4 5 4	.....	3 6 0	Bogra.		
...	26 4	26 4	24 0	200 0	200 0	200 0	Q	9 12	9 6	11 4	4 1 6	4 5 0	3 5 0	Patna.		
20 0	21 0	20 0	8 0	8 0	8 0	120 0	120 0	120 0	R	8 0	8 0	9 0	.....	.....	4 6 0	Darjeeling.
20 0	20 0	...	11 0	10 0	12 0	128 0	128 0	128 0	S	9 0	9 0	11 0	4 4 0	4 6 0	3 6 0	Jalpigoree.		
Eastern Districts.																		
...	13 5	13 5	...	120 0	120 0	120 0	T	8 8	8 8	12 0	4 4 0	4 4 0	3 4 0	Dacca.		
...	16 0	120 0	140 0	120 0	U	9 0	11 0	11 0	4 5 0	3 4 0	3 5 0	Furreedpore.		
...	10 10	10 10	14 0	120 0	120 0	120 0	V	9 4	9 2	12 0	3 13 0	3 12 0	3 4 0	Backergunge.		
...	10 8	20 0	...	...	...	W	9 8	9 6	12 0	4 2 0	4 4 0	3 5 0	Mymensingh.		

I. In sub-divisions retail prices of salt per rupee were:—Jungipore 10½ seers, Kandi 11 seers and Lalbagh 10 seers.

J. At Thakurgaon retail price of salt 7 seers per rupee.

K. In sub-divisions retail prices of salt per rupee were:—Nattore 8½ seers and Nowgong 8 seers.

L. In sub-divisions retail prices of salt per rupee were:—Nilphamari 9 seers, Gaibanda 7 seers.

M. At Berajunga retail price of salt 10½ seers per rupee.

N. Retail price of salt at Shiliguri 8 seers and Kurseong 7 seers per rupee.

O. At Falacotta in Adipore sub-division retail price of salt 8 seers per rupee.

P. In sub-divisions retail prices of salt per rupee were:—Manickgunge 8 seers, Moonsheegunge 8½ seers, and Naraingunge 9 seers.

Q. In sub-divisions retail price of salt per rupee were:—Patakhali 8 seers, Perozpora 9 seers.

R. In sub-divisions retail prices of salt per rupee were:—Attea 10 seers, Jamalpore 9 seers, Sherpore 10 seers, Kishoregunge 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN												
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (<i>Sorghum Vulgare</i> .)
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.

Eastern Districts—concluded.

		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong	11 8	10 0	16 0	...	...	...	14 0	13 0	13 0	21 7	20 4	17 0	...	...	...	...	...
23	Noakholly	...	...	...	...	...	...	20 0	20 0	19 0	21 0	21 0	21 0	...	...	...	...	...
24	Tipperah	12 8	13 8	13 5	...	...	...	17 8	17 8	17 13	25 0	25 0	20 8	...	...	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	14 8	14 8	12 4	16 0	16 0	13 14	...	...	...	...	...
	Hill Tipperah	8 0	8 0	12 0	...	...	...	14 0	15 0	12 0	28 0	28 0	17 0	...	...	...	...	...

BEHAR.

26	Patna	20 0	16 0	16 0	30 0	29 0	32 0	11 8	11 8	11 8	21 8	20 8	24 0	23 0	22 0	26 0	...	...
27	Gya	17 8	15 8	17 0	25 0	24 0	26 0	10 0	10 0	11 0	18 0	18 0	19 8	...	...	...	...	...
28	Shahabad	19 8	14 8	16 0	28 8	22 8	36 0	15 0	10 8	9 0	18 0	18 5	17 0	...	...	...	...	...
29	Darbhanga	16 0	13 8	18 0	28 0	35 0	30 0	12 0	14 8	14 0	20 0	20 12	23 0	...	...	...	...	...
30	Muzafferpore	14 0	13 6	18 0	30 0	30 0	30 0	12 0	12 0	12 8	20 0	20 0	22 0	...	...	...	...	...
31	Saran	17 0	15 0	15 0	27 0	26 12	29 0	8 8	8 8	9 0	20 12	21 10	22 0	...	...	...	...	...
32	Champaran	11 0	11 0	15 0	30 0	30 0	40 0	8 0	12 0	7 8	20 0	19 0	18 8	...	...	...	...	...
33	Monghyr	20 0	19 6	18 0	29 7	24 2	33 0	13 14	13 14	14 2	17 13	17 13	18 8	...	...	27 8	...	...
34	Bhagalpore	15 2	15 2	16 0	30 6	30 6	40 6	16 6	16 6	18 4	20 3	21 3	21 7	...	...	...	...	...
35	Furneah	16 0	16 0	15 0	26 8	26 8	...	20 0	21 0	20 0	24 0	23 0	22 0	...	...	...	...	...
36	Maldah	19 0	18 8	18 0	...	...	...	14 0	13 0	18 0	23 0	23 0	26 0	...	...	...	...	...
37	Sonthal Perghs.	11 0	11 0	12 0	...	...	...	16 8	16 0	18 0	22 0	21 0	27 8	...	...	...	...	...

ORISSA

38	Cuttack	15 12	14 7	14 7	...	...	...	10 8	10 8	13 2	21 0	21 0	18 6	...	...	...	...	...
39	Pooree	14 7	13 2	10 8	...	...	...	17 1	17 1	16 12	23 10	23 10	26 4	...	...	...	...	...
40	Balasore	15 0	16 0	18 0	13 0	13 0	13 0	14 0	14 0	14 0	27 0	25 0	25 0	...	...	...	...	...

CHOTA NAGPORE.

South-West Frontier Agency

41	Hazaribagh	15 0 (ordinary.)	16 0	19 0	23 0	20 0	25 0	8 0	9 0	11 0	16 0	16 8	20 0	...	...	...	...	Not
42	Lohardugga	15 12	15 0	24 0	28 0	20 0	22 0	15 8	16 0	19 0	18 8	18 0	24 0	...	...	...	...	...
43	Singbhoom	13 0	12 0	24 0	20 0	16 0	24 0	18 0	14 0	28 0	22 0	22 0	32 0	...	...	...	...	...
44	Mamhoom	14 0	12 0	17 0	32 0	32 0	40 0	15 0	14 0	18 0	22 0	22 0	32 0	...	...	...	...	...

S At Cox's Bazar retail price of salt 6½ seers per rupee.

T At Panchgatchia retail price of salt 7 seers per rupee.

U In sub-divisions retail prices of salt per rupee were:—Buxar 10 seers, Bhupnah 9½ seers, and Sasaram 10 seers.

V In sub-divisions retail prices of salt per rupee were:—Tajpore 8 seers and Madhubani 10 seers.

W In sub-divisions retail prices of salt per rupee were:—Seotamurhes 9 seers and Hajipore 9½ seers.

X At Buttiash retail price of salt 9 seers per rupee.

Published for general information

CALCUTTA.
The 10th April 1888.

Station Bazars of the Districts of Bengal on the 31st March 1888—(concluded.)

INDIAN-CORN OR MAIZE. (Zea Mays.)												ARHAR OR THUR. CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 10 SEERS.						DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.							
Eastern Districts—concluded.																											
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.										
...	...	...	10 0	9 0	10 0	110 0	110 0	75 0	S 8 0	7 0	12 0	4 4	0 4	10 0	3 0	0 0		Chittagong.							
...	...	...	...	...	...	...	...	...	T 7 0	7 0	8 0	4 12	0 4	10 0	4 6	0 0		Noakholly.	
...	...	...	10 0	8 0	11 1	...	...	...	8 0	8 0	11 8	4 8	0 4	8 0	3 5	0 0		Tipperah.				
...	...	...	...	...	...	320 0	320 0	320 0	6 6	6 6	8 0	5 0	0 5	0 0	4 8	0 0		Chittagong Hill Tracts.				
...	...	...	12 0	12 0	16 0	...	...	...	9 0	9 0	11 0	4 4	0 4	4 0	3 4	0 0		Hill Tipperah.				
BEHAR.																											
29 0	29 0	30 0	5 0	27 0	27 0	120 0	120 0	120 0	10 0	10 0	11 8	3 12	0 3	12 0	3 1	6 0		Patna.									
...	...	...	20 4	18 8	26 0	160 0	160 0	140 0	9 8	9 8	11 0	4 4	0 4	4 0	3 5	0 0		Gya.							
22 8	22 8	...	15 8	15 0	13 0	160 0	120 0	160 0	10 0	10 0	12 0	.....	.....	.....	3 5	0 0		Shahabad.						
27 0	25 12	33 0	17 0	16 12	19 8	160 0	140 0	176 0	10 0	9 8	13 0	3 10	3 3	13 0	3 0	0 0		Darbhanga.									
27 8	27 0	20 0	20 0	22 0	19 0	160 0	160 0	140 0	10 0	9 8	12 0	3 13	0 4	2 0	3 4	0 0		Muzafferpore.									
26 8	25 14	29 0	23 0	21 0	21 0	160 0	160 0	160 0	10 0	9 8	11 0	3 14	0 4	2 0	3 5	0 0		Saran.									
28 0	30 0	30 0	16 0	16 0	21 0	160 0	160 0	160 0	9 0	9 0	11 0	4 0	0 4	4 0	3 7	0 0		Champaran.									
31 8	26 4	29 0	21 0	18 14	21 0	126 0	126 0	126 0	10 8	10 8	12 9	3 5	6 3	5 6	3 0	0 0		Monghyr.									
26 8	26 8	35 5	17 10	17 10	21 7	164 0	164 0	171 0	10 1	10 1	12 10	3 12	0 3	12 0	3 3	0 0		Bhagalpore.									
...	...	...	16 0	16 0	16 0	120 0	120 0	128 0	8 8	8 8	10 8	4 11	3 4	13 3	3 10	0 0		Purneah.							
...	...	...	...	...	...	120 0	120 0	130 0	9 0	9 0	12 0	4 4	0 4	4 0	3 4	0 0		Maddah.				
34 0	29 0	37 8	24 0	24 0	26 0	200 0	200 0	200 0	9 8	9 8	11 8	3 15	0 3	14 0	3 4	0 0		South Patna.									
ORISSA.																											
...	...	...	19 11	18 6	...	80 0	80 0	80 0	10 8	10 0	14 0	3 13	0 3	14 0	2 12	0 0		Cuttack.							
...	...	...	17 1	17 1	17 1	80 0	70 0	70 0	10 8	9 4	14 7	3 8	0 3	12 0	2 10	0 0		Pooree.							
...	...	...	13 0	13 0	12 0	200 0	200 0	160 0	9 4	8 8	10 8	4 4	0 4	7 6	3 0	0 0		Balasore.							
CHOTA NAGPORE South-West Frontier Agency.																											
20 0	20 0	24 0	21 0	20 0	20 0	320 0	320 0	320 0	8 0	8 0	10 0	4 6	6 4	6 6	3 10	0 0		Hazaribagh.									
...	...	24 0	23 0	22 0	24 0	140 0	140 0	120 0	Za 8 1	9 6	10 0	4 10	0 4	4 0	3 12	0 0		Bohardugga.									
...	...	...	20 0	19 0	24 0	320 0	240 0	320 0	8 0	8 0	9 0	4 12	0	.....	4 0	0 0		Singbhoom.						
20 0	20 0	20 0	21 8	22 0	23 0	240 0	240 0	240 0	Z3 8 0	9 2	10 10	4 8	0 4	4 0	3 6	0 0		Manbhoom.									

Y. In sub-divisions retail prices of salt per rupee were :—Begusarai 8½ seers and Jamui 9 seers.
Z. In sub-divisions retail prices of salt per rupee were :—Kishengunge 10 seers and Arrarah (at Kaneengunge) 10 seers.
21. As Bhadruck retail price of salt 8 seers per rupee.
22. At Daltengunge retail price of salt 8½ seers per rupee.
23. At Garhampore retail price of salt 11 seers per rupee.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt in the

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 0	2 12 10	2 12 6	1 13 5	1 10 6	1 6 0	3 2 9	3 6 7	3 7 0	1 15 0	2 1 4	1 14 0
2	Bernjgungo ...	2 0 0	2 0 0	2 0 0	...	...	...	3 6 0	3 8 0	3 14 0	1 14 0	1 14 0	1 12 6
3	Dacca ...	2 11 0	2 12 0	3 0 0	0 16 6	1 0 0	1 8 0	1 14 6	1 15 0	2 6 0	1 8 0	1 9 0	2 1 0
4	Naraingunge ...	...	...	...	...	...	...	2 0 0	2 4 0	2 6 0	1 12 0	2 0 0	1 13 0
5	Chittagong ...	3 6 0	3 8 0	2 6 0	...	...	...	2 12 0	2 12 0	2 14 0	1 14 0	1 15 0	2 4 0
6	Patna ...	1 15 0	2 6 0	2 7 0	1 4 6	1 5 0	1 3 6	3 0 0	3 0 0	3 0 0	1 14 6	1 13 9	1 10 9
7	Balasore ...	2 8 0	2 4 0	2 4 0	3 0 0	3 0 0	3 0 0	2 12 0	2 12 0	2 12 0	1 6 0	1 8 0	1 7 0
8	Poorce ...	...	...	...	...	...	...	...	...	...	1 8 0	1 8 0	1 6 8
9	Cuttack ...	2 5 0	2 10 0	2 10 0	...	...	...	3 10 0	3 10 0	3 0 0	1 11 0	1 11 0	2 2 0

CALCUTTA.

The 10th April 1888.

PRICES PER MAUND

BAR OR CHOLUM.
(*Pennisetum Vulgare*.)

BAJRA OR CUMBU.
(*Pennisetum typhoides*.)

	Next preceding return.		Corresponding return of last year.		Present return.	Next preceding return.		Corresponding return of last year.	
	R.	A.P.	R.	A.P.	R.	R.	A.P.	R.	A.P.
	4	12	4	8	1	8	0	2	8
..
..
..
..
6	0	1	12	0	1	6	0	..	..
..
..
..

OF 40 SEERS.

MARUA OR RAGI. (<i>Eleusine Corocana.</i>)			KANGNI OR KAKUN ITALIAN MILLET. (<i>Setaria italica.</i>)		
Present return	Next preceding return.	Corresponding return of last year.	Present return	Next preceding return.	Corresponding return of last year
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	3 0 03	0 12	4
...
...
...
...
...	...	6 0	1 8 01	5 01	14
...
...
...

undermentioned *Marts* of Bengal on the 31st. March 1888.

GRAM, CHANA, CHHOLA, CADALAY OR SUNAGA. (<i>Cicer Aretinum</i> .)			INDIAN-CORN OR MAIZE. (<i>Zea Mays</i> .)			ARHAR OR THUR CADJAN PEA. (<i>Cajanus indicus</i> .)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 11 10	1 15 5	1 11 3	3 0 2	1 8 8	1 4 0	1 14 5	1 15 1	2 2 6	0 6 6	0 6 8	0 6 9	3 9 5	3 13 7	3 0 0	Calcutta.
2 6 0	2 4 0	2 0 0	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	3 0 0	Serajungo.
2 7 0	2 8 0	2 8 0	...	...	...	2 15 0	3 0 0	...	0 5 0	0 5 3	0 5 0	4 4 0	4 4 0	3 4 0	Dacca.
2 4 0	2 8 0	1 14 0	...	...	...	2 8 0	3 0 0	...	0 10 0	0 10 0	0 6 0	4 0 0	5 0 0	3 15 0	Naraingunge.
2 14 0	4 8 0	3 2 0	...	...	...	3 12 0	4 0 0	3 12 0	0 5 0	0 5 0	0 8 0	4 4 0	4 10 0	3 0 0	Chittagong.
1 4 8	1 7 6	1 5 6	1 5 0	1 5 0	1 4 9	1 8 0	1 7 0	1 6 6	0 5 0	0 5 0	0 5 0	3 12 0	3 12 0	3 1 6	Patna.
2 6 0	2 14 0	2 8 0	...	...	...	3 0 0	3 0 0	3 2 0	0 4 0	0 4 0	0 5 0	4 4 0	4 7 0	3 6 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 8 0	3 12 0	2 10 0	Poorue.
1 11 0	(kala) 1 11 0	2 2 0	...	...	...	2 0 0	2 2 0	...	0 8 0	0 8 0	0 8 0	3 13 0	3 14 0	2 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt of Bengal.

Meteorological Report of the Province

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.																		
			AIR PRESSURE.					TEMPERATURE.					HUMIDITY.		CLOUD.		Rainfall.				
			Highest, 10 A.M., the previous day.	Lowest, 10 A.M., the previous day.	Mean, 10 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 10 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 10 A.M.		Variation from normal mean, 10 A.M.			
DISTRICT.			Representative stations.			30°00	29°58	29°52	29°56	—	100°2	72°0	86°9	76°3	81°6	—	80	—	3°4	—	0°0
ORISSA.	Pooree	Pooree	30°00	29°58	29°52	29°56	—0°03	83°2	62°0	85°2	75°4	80°3	+1°4	72	—	4°2	—2°2	Nil			
		False Point	30°04	29°57	29°53	29°59	—0°05	85°5	61°0	83°8	73°3	80°1	—0°2	73	—9	2°2	—0°7	0°0			
		Cuttack	29°03	29°43	29°57	29°54	+°00	103°4	64°8	98°2	76°1	82°4	—2°1	57	—5	1°0	—1°4	2°6			
	Balsore	Balsore	29°07	29°50	29°58	29°54	—0°08	99°5	60°6	91°5	69°6	81°5	+1°3	55	—	0°7	—	2°3			
	South-West Midnapore and South 24-Pergunnahs.	Saugor Island	29°04	29°56	29°53	29°55	0	91°7	64°4	87°1	76°3	81°7	+0°8	78	0	4°0	+0°4	0°2			
	Midnapore	Midnapore	29°04	29°55	29°50	29°52	+°007	107°3	59°7	97°8	69°9	83°8	+2°4	44	—	1°1	—	0°1			
	24-Pergunnahs, Howrah and Hookhly.	Calcutta	30°03	29°57	29°56	29°57	—°015	98°9	59°3	91°2	70°4	80°8	+0°6	6	—8	2°2	—0°1	2°3			
	Burdwan	Burdwan	29°04	29°57	29°58	29°59	—°013	104°7	57°9	96°0	68°6	82°3	+1°3	42	—43	1°9	—0°4	0°0			
	Bankoora	Bankoora	29°04	29°56	29°59	—	—	106°1	61°7	95°7	69°6	82°7	—	37	—	0°7	—	0°0			
	West Burdwan and Beerbhoom.	Raniganj	29°07	29°50	29°59	29°56	—°002	105°8	60°1	93°7	69°4	83°0	+2°2	33	—	1°0	—	0°1			
SOUTH-WEST BENGAL.	Moorsheadabad	Korhampore	29°07	29°57	29°58	29°56	—°009	102°7	57°2	93°8	66°7	80°3	+0°7	52	—5	2°1	—0°7	1°3			
	Naddea	Krishnanagar	29°07	29°59	29°56	29°52	—	103°5	53°9	94°1	67°2	80°7	—	46	0	2°4	—	0°1			
	Jessore and Khoolna	Jessore	29°09	29°55	29°59	29°54	—°001	103°3	54°0	93°7	69°1	81°4	+0°8	63	—2	3°4	+0°5	1°9			
	Chittagong	Chittagong	29°06	29°50	29°59	29°51	+°004	88°6	59°1	85°4	68°4	76°0	0	72	—	4°7	+1°7	1°6			
	Chittagong Hill Tracts	Demagiri	30°02	29°50	29°50	29°53	+°020	95°8	57°1	88°9	69°7	79°3	+1°1	68	—	3°9	—	1°3			
	Backerganj	Barrisal	30°04	29°50	29°52	29°57	+°006	89°7	53°5	84°2	68°0	77°1	+0°3	66	—	5°	—	2°8			
	Noakholly	Noakholly	30°08	29°53	29°54	29°55	+°014	95°5	53°5	84°6	67°1	76°8	—1°9	69	—	1°6	—	4°3			
	Furzedpore	Furzedpore	30°06	29°58	29°52	29°55	+°017	95°1	57°9	80°1	69°3	73°2	—0°1	66	—1	3°5	+0°6	3°3			
	Dacca	Dacca	30°09	29°52	29°53	29°55	+°014	91°3	54°0	88°1	67°5	78°0	+0°4	67	—	3°0	—	3°3			
	Commillah	Commillah	30°09	29°52	29°53	29°55	+°014	91°3	54°0	88°1	67°5	78°0	+0°4	67	—	3°0	—	3°3			
SOUTH BENGAL.	Mymensingh	Mymensingh	30°09	29°58	29°55	29°52	+°008	91°3	55°1	86°3	66°5	76°4	+2°3	71	—	4°5	—	2°1			
	Bogra	Bogra	30°06	29°54	29°50	29°50	—°016	101°8	54°4	90°9	65°4	78°2	—	57	—	2°1	—	0°2			
	Pubna	Serajgunj	30°08	29°51	29°58	29°53	+°007	97°9	53°0	88°7	67°1	76°9	+0°2	63	—	3°1	—	1°3			
	Rajshahye	Rampore Bazar	30°06	29°50	29°59	29°53	+°017	98°4	53°7	89°9	62°6	76°3	—1°8	55	—	1°2	—	0°9			
	Maldah	Maldah	29°03	29°50	29°54	—	—	98°7	51°9	83°0	62°1	78°0	—	43	—	1°4	—	0°0			
	Dinapore	Dinapore	29°04	29°50	29°53	29°54	+°014	98°6	53°7	89°7	63°6	76°6	+0°6	50	—	1°8	—	0°0			
	Rungpore	Rungpore	29°02	29°50	29°56	29°50	—°024	96°5	54°0	84°4	61°0	72°7	—1°4	63	—	1°0	—	2°7			
	Jalpigoree and Cooch Behar.	Jalpigoree	29°02	29°51	29°54	29°51	+°009	93°0	54°4	83°8	63°1	73°8	+1°0	63	—	2°4	—	1°3			
	Darjeeling Hill Tracts	Darjeeling	29°12	29°50	29°52	—	+°021	64°1	35°4	56°6	45°1	50°9	+0°9	79	+6	6°4	+1°3	1°3			
	Purneah and North Bhakulpore.	Purneah	29°04	29°50	29°55	29°53	+°003	87°3	55°8	89°7	62°8	76°3	+0°5	54	—1	1°0	—0°3	0°0			
SOUTH BENGAL.	Mozufferpore	Mozufferpore	29°07	29°58	29°52	29°53	0	93°2	58°4	86°8	66°1	76°5	+1°2	57	+3	0°3	—1°3	Nil			
	Durbinaga	Durbinaga	29°08	29°50	29°59	29°56	—°003	99°0	52°2	90°4	58°8	74°6	+0°2	42	—	1°9	—	Nil			
	Chumprun	Motihari	29°03	29°51	29°53	29°51	+°001	95°5	55°5	89°7	63°8	76°8	—0°1	62	—	0°2	—	0°2			
	Sarun	Chupra	29°03	29°50	29°52	29°51	—°013	101°6	61°9	94°4	68°5	81°5	+4°7	28	—	0°5	—	0°1			
	Dehree	Dehree	29°03	29°50	29°52	29°51	—°013	101°6	61°9	94°4	68°5	81°5	+4°7	28	—	0°5	—	0°1			
	Shahabad	Buxar	29°02	29°50	29°53	29°52	+°001	99°4	54°4	92°5	64°9	78°7	+1°0	30	—	0°9	—	Drop			
	Arrah	Arrah	29°04	29°50	29°50	29°50	—°007	101°4	64°3	93°6	63°6	78°6	+1°2	34	—	0°5	—	Nil			
	Gya	Gya	29°02	29°52	29°53	29°55	—°031	103°0	58°0	94°8	67°3	81°1	+1°5	39	+1	1°7	—0°7	0°0			
	Patna	Bankipore	29°04	29°54	29°53	29°51	—°010	100°5	54°6	92°5	64°8	78°7	+1°5	34	—10	1°2	—1°3	Nil			
	South Bhagulpore and Bhagulpore.	Bhagulpore	29°07	29°54	29°56	29°51	+°008	98°4	56°0	91°8	64°4	78°1	+1°0	39	—	4°5	—	Nil			
SOUTH BENGAL.	Sontal Pergunnahs	Naya Dooanka	29°02	29°52	29°51	—	+°003	102°7	55°6	93°9	66°3	80°1	+1°0	33	—	0°6	—	0°2			
	Hazaribagh	Hazaribagh	29°02	29°50	29°52	29°53	+°012	97°5	57°8	90°5	65°8	78°2	+2°3	22	—14	2°0	—0°5	0°0			
	Ichhar ngga and Manbhoom.	Ranchee	29°04	29°52	29°54	29°50	—°001	97°3	55°9	90°1	65°0	77°6	+1°8	2	—	1°5	—	0°0			
	Singbroom	Chyebass	29°05	29°50	29°51	—	+°004	104°8	58°0	96°5	67°6	82°1	+0°5	30	—	0°9	—	Drop			
SOUTH BENGAL.	Sibsagar	Sibsagar	29°07	29°55	29°59	30°00	+°006	95°7	55°7	78°8	61°9	70°4	+1°3	34	+8	6°0	—0°1	0°0			
	Dhubri	Dhubri	30°05	29°50	29°52	29°54	—°005	98°5	58°9	85°4	65°7	75°5	+0°1	68	+8	5°5	+1°1	2°5			
	Silchar	Silchar	29°06	29°50	29°53	29°51	—°018	92°5	55°4	86°5	64°3	75°3	+1°3	71	—	5°5	+1°1	2°5			

Mean of 28 days.
Mean of 10 days.
Mean of 30 days.

ngal for the month of March 1888.

DISTRICT OBSERVATIONS.										Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.												
Of month.					Since 15th May 1887.							
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.			
0.08	0.20	-0.12	1.0	2.3	45.55	55.22	-12.67	76.7	88.3	Pooree	ORISSA.	
1	1	-	-	-	-	-	-	-	-	Gopalpore		Pooree
0.63	1.18	-0.55	1.2	2.5	48.02	51.69	-6.57	80.8	85.0	False Point		Pooree
0.63	1.35	-0.72	1.5	2.8	46.13	56.39	-10.26	72.6	82.7	Cuttack	Cuttack	ORISSA.
0.32	1.31	-0.99	1.7	2.5	62.43	65.12	-2.19	88.7	90.4	Balasore	Balasore	
0.70	1.68	-0.98	1.0	2.9	53.07	54.24	-0.57	72.2	77.3	Saugor Island	South-West Midnapore and South 24-Parganas.	
1.07	1.54	-0.47	2.8	3.2	44.28	55.07	-10.79	82.3	96.8	Midnapore	Midnapore	ORISSA.
0.73	1.46	-0.73	2.3	2.9	48.01	49.23	-1.22	78.3	81.0	Calcutta	4-Perkunnahs, Howrah, and Hooghly.	
0.13	1.26	-1.13	0.8	2.8	51.59	54.25	-2.66	77.4	87.8	Burdwan	Burdwan	
0.34	0.65	-0.31	1.0	2.0	49.08	54.11	-5.03	80.9	88.3	Bankoora	Bankoora	SOUTH-WEST BENGAL.
0.46	0.94	-0.48	2.7	2.3	60.60	51.53	+9.07	88.4	82.9	Ranigunj	West Burdwan and Beerbhoom.	
2.14	1.78	+0.36	2.6	3.1	46.29	52.32	-6.03	80.2	83.4	Berhampore	Moorshedabad	
1.80	2.25	-0.45	3.1	3.7	45.31	57.33	-12.01	83.5	91.5	Krishnagore	Nudda	SOUTH-WEST BENGAL.
1.36	2.10	-0.74	4.5	3.5	102.43	117.43	-15.00	115.5	113.4	Jessore	Jessore and Khoolna	
1.81	2.87	-1.06	4.5	4.0	68.86	86.00	-17.14	115.9	120.7	Chittagong	Chittagong	
1.62	2.20	-0.58	4.0	4.0	64.02	81.63	-17.61	100.2	113.6	Demagiri	Chittagong Hill Tracts	SOUTH-WEST BENGAL.
3.74	3.71	-0.03	7.5	6.3	78.3	114.36	-36.03	104.5	117.4	Bartisal	Backergunj	
4.00	2.62	+1.38	4.7	4.4	41.71	60.23	-18.52	73.7	94.6	Nonkhully	Nonkhully	EAST BENGAL.
4.97	3.00	+1.97	4.8	4.6	47.56	65.23	-17.67	94.6	98.9	Furreedpore	Furreedpore	
5.73	3.08	+2.65	5.8	5.5	50.17	76.48	-26.31	85.6	106.2	Dacca	Dacca	
2.41	2.16	+0.25	4.4	4.1	63.77	70.79	-7.02	80.8	96.1	Commillah	Commillah	EAST BENGAL.
0.68	1.14	-0.46	2.8	2.6	61.64	65.12	-3.48	77.3	82.6	Mymensingh	Mymensingh	
1.88	1.47	+0.41	4.5	3.3	47.80	50.13	-2.33	80.0	86.3	Bogra	Bogra	
1.20	0.85	+0.35	3.0	2.3	51.90	55.68	-3.78	68.0	81.0	Serajgunj	Pabna	EAST BENGAL.
0.17	0.62	-0.45	1.5	1.9	47.08	50.12	-3.04	75.5	89.1	Rampore Beaulieu	Rajshahye	
0.80	0.70	+0.10	1.6	1.8	70.08	67.30	+2.78	82.0	81.2	Maldah	Maldah	NORTH BENGAL.
2.40	1.40	+1.00	3.3	2.8	88.0	75.29	+12.71	82.1	79.9	Dinajepore	Dinajepore	
2.58	1.80	+0.78	5.0	3.2	120.70	112.78	+7.92	98.0	102.5	Rangpore	Rangpore	
2.30	2.00	+0.30	6.5	4.4	121.81	123.71	-1.90	129.4	126.5	Jalpigoree	Jalpigoree and Cooch Behar.	NORTH BENGAL.
0.92	0.47	+0.45	1.0	1.3	66.34	59.02	+7.32	75.0	72.3	Darjeeling	Darjeeling Hill Tracts	
0.23	0.20	+0.03	1.0	1.3	47.57	44.21	+3.36	62.7	60.9	Purneah	Purneah and North Bhagalpore.	NORTH BENGAL.
0.29	0.28	+0.01	1.0	1.1	50.56	45.11	+5.45	67.0	69.9	Mozufferpore	Mozufferpore	
0.15	0.38	-0.23	0.5	1.2	49.97	47.34	+2.63	57.5	56.3	Durbhunga	Durbhunga	
0.12	0.23	-0.11	0.7	1.2	40.37	43.82	-3.45	57.3	60.0	Motihari	Champaran	NORTH BENGAL.
0.04	0.88	-0.84	0.5	1.5	38.05	41.18	-3.13	54.2	64.5	Chupra	Saran	
0.04	0.41	-0.37	0.5	1.5	30.46	42.55	-12.09	61.3	60.4	Dehree	Sugauli	SOUTH BENGAL.
0.11	0.82	-0.71	0.9	1.4	36.41	42.31	-5.90	59.1	65.3	Buxar	Sugauli	
0.11	0.65	-0.54	0.9	1.3	48.63	44.08	+4.55	62.8	69.5	Arrah	Gya	
0.20	0.35	-0.15	1.7	1.5	58.41	51.60	+6.81	81.2	79.1	Gya	Gya	SOUTH BENGAL.
0.03	0.35	-0.32	0.8	2.2	46.47	51.14	-4.67	71.5	80.1	Bankipore	Panna	
0.00	0.80	-0.80	0.3	2.6	46.35	49.18	-2.83	74.1	87.6	Bhagalpore	South Bhagalpore and Monghyr.	
0.11	1.28	-1.17	0.0	3.1	83.03	55.60	+27.43	79.0	96.5	Naya Dooanka	Central Pargannas	CHUTIA NAGPUR.
										Hazaribagh	Hazaribagh	
										Ranchee	Lehardurga and Manbhum.	
										Chychara	Singbhum	CHUTIA NAGPUR.
										Sibsagar	Assam	
										Dhubri	Assam	
										Shibpur	Assam	ASSAM.

Table of Rainfall recorded at Station

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1888 up to 31st Mar. 1888.	Average rainfall from 1st January up to 31st Mar. 1888.	Station.	District.	Meteorological division.
...	0.06	1	2.0	0.06	0.57	0.06	3.14	1.93	Pooree	Pooree	Orissa.
...	1	2.0	0.04	0.82	0.04	0.91	1.71	Khurda.
...	1	2.0	0.14	0.79	0.14	0.95	1.95	Banpur.
...	1	2.3	0.08	1.16	0.08	5.31	2.62	False Point.
...	Nil	?	?	?	?	1.88	?	Gop.
...	1	?	0.46	?	0.46	1.40	?	Pipli.
...	Nil	1.4	Nil	0.81	Nil	3.30	1.77	Jagatsingpore.	Cuttack.	...
...	1	4.2	0.05	1.50	0.05	1.38	2.41	Bauki.
...	1	2.7	2.12	1.20	2.13	3.50	2.16	Cuttack.
...	3	2.1	0.74	0.87	0.34	4.46	2.04	Kendrapara.
...	1	2.3	0.23	1.13	0.23	3.00	2.87	Jaipore.
...	Nil	?	Nil	?	?	?	?	Dharmasalla.
...	Nil	?	Nil	?	?	?	?	Salipore.
...	Nil	2.1	Nil	1.09	Nil	3.80	2.59	Chandbali	Balasore.	...
...	0.52	2	2.4	1.39	1.38	1.07	5.63	3.09	Bluddruck.
...	2	2.8	0.82	1.03	0.52	3.66	2.72	Sornh.
...																																								

Table of Rainfall recorded at Station

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EAST BENGAL —conold.	Noakhally— conold. Furreedpore...	Harishpore	0'30	0'40
		Ramganj	1'70	...	1'55	2'27	0'50	0'30
		Madaripore	1'20	0'56	0'14	0'28
		Furreedpore... Gaulando	0'03	...	2'45	...	2'35	0'70
	Dacca ...	Munshikunge	0'10	...	2'16	...	1'49	1'07
		Dacca	2'26	...	2'18	0'88
		Narsingunge	0'12	...	2'61	...	2'02	1'34
		Manickkunge ... Joydebpore	0'04	...	2'57	...	1'03	0'62
	Hill Tipperah ...	Agartala	0'11	...	2'44	...	0'81	0'42
		Tipperah	1'15	2'65	0'08	...	2'22
	Tipperah ...	Comilla	0'30	...	1'43	...	0'28	0'05	0'07	0'60	0'23
		Chandpore	1'30	...	2'00	...	1'20	0'70	0'20	0'15
		Brahmunieria	0'08	...	1'48	0'16	2'26	0'44
		Ranchandra- pore	0'10	1'45	0'70	0'82
		Nagari nagar	0'30	...	1'12	...	0'50	0'57	0'10	...	0'25	1'10
		Daudkandi	0'35	...	0'88	0'40
		Karba	5'10	3'50
		Laksham	0'00	0'80	0'48	0'32	0'00	0'01
	Mymensingh...	Kishoregonne	0'19	0'2	...	0'32	0'20	...	0'62
		Atia (Tangail)	1'27	...	0'54	0'17
		Mymensingh	0'01
		Jamulpore	0'57	...	0'09	...	0'19
		Netrokon	0'03	...	1'70	...	1'56	0'80
		Subarnakhal	0'70	0'26
		Jurgapore ... Deuaganj	1'36	...	1'10	0'10
NORTH BENGAL	Pubna ...	Pubna	0'06	0'17	1'25	0'24	
		Serajkunge	0'02	1'06	0'32	
	Bogra ...	Sherpore	0'10	0'21	0'04	
		Nowakhilla	0'22	0'05	0'06	
		Bogra	0'16	
		Panchbibi	0'60	0'06	
	Rajshahye ...	Beaulah	0'05	0'88	0'05	0'01	
		Nattore	1'25	
		Nawaganj	
		Lalpor	0'37	0'27	
	Maldah ...	Manda	0'12	0'11	
		Mulda	
		Chanchal	0'28	0'05	
Dinagopore ...	Gujol ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'10	0'26	...	...	...	...
	Silganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'03	...	...	...	...	...
	Mohadebpore ...	...	...	...	...	...	...	...	...	...	0'04	...	...	...	...	...	...	...	...	...
	Churamon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'48	...	...	...	...
Rangpore ...	Rangpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'86	...	...	...	...	...
	Dinagopore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'06	...	...	...	...	...
	Balorghat ...	...	...	...	...	...	...	...	...	...	0'04	...	...	...	...	0'62	...	...	...	...
	Bhawaniganje (Gpalandaj), Rangpore ...	...	...	...	...	...	...	...	...	...	0'10	...	0'70	...	0'87	...	...	...	...	...
Rangpore ...	Kurigram	2'18	0'02	0'56	...	0'02	
	Rangpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'03	0'05	...	...	...	...
	Rangpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'56	...	0'83	...	...	...
	(Niphmari), Ulupore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'85	...	0'92	...	...	...
Julpigore ...	Julpigore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	2'19	...	1'16	...	...	...
	Alipore Doar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'05	...	0'2	...	...	...
	Falarolla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'05	...	...	...	...
	Debi,anj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'94	0'46	...	...	0'19	0'24
Cooch Behar...	Dinhat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'26	...	0'06	...	...	...
	Cooch Behar...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'91	0'55	...	0'76	...	0'15
	Micklagunge ...	...	...	...	...	...	...	...	...	...	0'48	...	0'33	...	0'65	...	1'12	...	0'27	0'30
	Matabhanga...	...	...	...	...	...	...	...	...	...	...	0'46	0'45	0'02	1'16	...	0'02	0'07	...	...
Darjeeling Hill	Buxa ...	...	...	...	...	...	...	...	...	...	...	0'45	0'70	1'11	1'04	0'03	2'00	0'30	...	0'05
	Siliguri ...	...	...	...	...	...	...	...	...	...	...	1'57	0'35	0'06	0'57	...	0'08	...	...	...
	Darjeeling ...	...	...	...	...	...	...	...	...	...	...	0'36	...	0'18	0'39	...	...	...	...	...
	Kalimpong ...	...	...	...	...	...	...	...	...	...	...	0'72	0'09	0'81	0'20	...	...	...	...	...
NORTH BENGAL	Purneah ...	Kissengunge	0'05	
		Arracah	1'50	
		Purneah	0'05	
		Gondwara	0'12	
		Islampur	
		Matiari	0'90	0'85	
North Bhagul- pore.	Kaliaganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maddapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'24	...	...	...	...
	Soozol ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'83	...	...	...	...
	Protaganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Durbhanga ...	Tajpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'10	...	...	...	...
	Durbhanga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'05	...	...	...	...
	Machuliani ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'63	...	...	...	...
	Bahera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'90	...	...	...	...
Mozufferpore	Kohera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sutanarhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'40	...	...	...	...
	Mozufferpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'23	...	...	...	...
	Hajipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'08	...	...	...	...
Chumpran ...	Para ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mahua ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sikhar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'20	...	...	...	...
	Pupri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'20	...	...	...	...
Sarun ...	Motihari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bettiah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bogaha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'30	...	...	...	...
Gopalgunge ...	Larkura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'25	...	...	...	...
	Gopalgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'16	...	...	...	...
	Sewan ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chupra ...	Chupra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chupra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

11	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1888 up to 31st March 1888.	Average rainfall from 1st January up to 31st March 1888.	Station.	Inspector.	Meteorological division.
...	3	?	1.20	?	0.50	3.64	?	Harishpore ...	Nonkholy—	East Bengal—
...	4	?	6.11	?	2.27	8.53	?	Ramganj.	confield,	confield.
...	5	4.8	2.38	2.83	1.29	3.76	4.41	Maduripore ...	Purrowd-pore.	
...	5	4.0	5.63	2.78	2.45	7.98	4.41	Purrowd-pore.		
...	5	3.9	3.92	2.33	2.34	5.54	3.95	Goalundo.		
...	5	5.2	5.36	3.95	2.10	7.76	5.84	Munshigunge.	Dacca.	
...	4	5.0	5.57	2.63	2.26	8.33	3.94	Dacca.		
...	5	4.0	6.22	3.72	2.61	8.91	5.21	Narainkunge.		
...	5	4.0	2.71	1.99	1.63	2.05	3.58	Manickkunge.		
...	5	?	4.01	?	2.44	5.07	?	Joydepore.		
...	4	5.7	7.00	4.86	2.65	9.90	6.81	Agartola.	Hill Tipperah.	
...	7	6.1	3.57	3.07	1.43	5.52	4.56	Comilla.	Tipperah.	
...	6	4.2	5.55	3.54	2.90	8.59	4.94	Chandpore.		
...	5	5.8	6.81	4.68	2.39	8.75	6.75	Brahmabarua.		
...	5	?	3.62	?	?	?	?	Ramchandrapore.		
...	7	?	3.94	?	1.12	5.71	?	Nasirnagar.		
...	3	?	2.23	?	0.95	3.55	?	Daukhundi.		
...	2	?	8.99	?	5.10	10.59	?	Kash.		
...	6	?	3.19	?	0.78	5.93	?	Loksham.		
...	5	6.0	2.41	3.61	1.92	3.30	4.44	Kishoregunge.	Myensingh.	
...	3	2.8	1.50	1.15	0.76	2.78	3.02	Atia (Taogail).		
...	3	4.7	2.74	2.24	1.27	3.59	3.77	Myemtsingh.		
...	3	2.8	0.65	1.66	0.37	1.99	2.96	Jamulpore.		
...	6	4.4	4.73	2.36	1.79	5.60	3.60	Netrokona.		
...	2	?	0.96	?	0.70	1.71	?	Subornakhally.		
...	7	?	5.86	?	1.36	0.76	?	Durgapore.		
...	3	?	1.90	?	0.84	1.90	?	Dewanganj.		
...	5	3.7	2.19	1.77	1.65	3.93	3.29	Pubna.	Pubna.	
...	4	2.8	1.57	1.35	1.06	3.69	2.79	Serajkunge.		
...																				

Table of Rainfall recorded at Station

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
NORTH BEHAR	Shahabad ...	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rhubooh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sasseram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sersah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mohanias ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ...	Aurangabad
		Gya
		Nowadah
		Jehanabad
		Arwal
		Daudnagar
		Sherrghati
		Rajauli
		Pakri Bara- wan.
		Patna ...	Patna
	Dinapore
	Behar
	Barra
	Bickram
	Monghyr ...	Hilsa
		Hogooerai
		Monghyr
		Jaimul
		Gogri
	South Bhagul- pore.	Sheikpura
		Bhagulpore
		Banika
		Kolgong
		Sonthal Per- gunnahs.	Rajmehal
Gouda ...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pakour ...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nya Doomka ...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Deoghur ...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jamtara ...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Simra ...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nanihat ...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CENTRAL NAG- PUR.	Hazaribagh ...	Pachamba ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		(Giridi) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hazaribagh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Semtagurh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahudi Hills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhoomrah Hills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Karagdoha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bamghar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga...	Lohardugga
		Ranchi
Palamow ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Silli ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Balumat ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Singbhoom ...	Hosainabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chyebassa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chakradhar- pore. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ghatsila ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Manbhoom ...	Baharagura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Purulia ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gobindpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Baghunath- pore. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Barrabhoom ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jhalda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Das ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

in Bengal for the month of March 1888—concluded.

[illegible]

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS
TAKEN IN ASSAM, FOR THE MONTH OF MARCH 1888.**

THE transition from the cold-weather conditions to those of the hot season in Bengal, which usually commences at the close of February, becomes complete in March. The normal features of the meteorology of March are therefore rapidly increasing temperature, gradually decreasing pressure, a general increase in the air motion, winds becoming westerly at the inland stations and south-westerly at the southern stations, while the northerly component in the wind directions almost disappears except in Behar; the air is also generally very dry, skies are clear, and there is an almost complete absence of rain, unless the normal weather conditions are disturbed by the occurrence of the local storms known as nor'-westers. These storms are believed to be brought about by the interaction of the more or less opposing wind systems which obtain to a certain extent over Bengal in this month, for at the western stations, winds are strongly westerly, at the southern stations strong moist southerly winds usually blow, while easterly winds continue to blow down the Assam Valley, and sometimes penetrate as far as Purneah and Durbhunga. From the nature of the formation of these nor'-westers and their local character, the rainfall brought by them, which is sometimes decidedly heavy, is very irregularly distributed. Occasionally also the normal conditions in March are disturbed by the formation of depressions over Northern India, which extend and travel in a south-easterly direction, and give unsettled weather and perhaps rain to Behar, Chutia Nagpur, and North Bengal, but these barometric depressions are usually less numerous and less influential in character than they are in the previous cold-weather months.

By these irregular actions a moderate amount of rain is brought to Bengal during March. The normal rainfall is heaviest in East Bengal, where it averages about 28 inches. In South-West Bengal, North Bengal, Chutia Nagpur, and Orissa the fall ranges from about one to one and a half inches, while in Behar it is rather less than half an inch.

Meteorology of the month.—The chief features in the meteorology of March 1888 have been—

1. A mean pressure over the whole province which has been almost absolutely normal, though the western stations in the province have shown very slight defects while the other stations show corresponding excess pressures. The mean pressure of the whole of Bengal has not varied from the normal by more than about two thousandths of an inch, while in Assam there has been a defect of about six thousandths of an inch only.
2. The average temperature of the whole province has been 0.8° in excess of the normal, the largest excess being confined to the districts Chutia Nagpur, South Behar and South-West Bengal, where it has varied from about two to one and a half degrees.
3. Humidity has been below the normal at almost all stations, the general defect being equal to about 4 per cent.
4. Cloud proportion has been also slightly smaller than usual over the greater part of the province.
5. Two slight periods of disturbance have occurred, the first accompanying the movement of a very feeble area of low pressure over Bengal, and which gave rise to local rain with storms on about the 9th and 10th, and the second period of disturbance, during which nor' westers were numerous, lasting from the 12th to the 15th, and which latter series gave even a larger amount of rain than the first, the rainfall during the second period being particularly heavy in parts of the East, South-West, and North Bengal districts.
6. Rainfall for the month has been decidedly above the normal in East and North Bengal, and in North Behar; it has been about half to two thirds the normal in Orissa and South-West Bengal, while rainfall has been almost absent in South Behar and Chutia Nagpur. In Assam decidedly heavy rain has been received during the month.

The weather conditions call for no particular comment during the early part of the month up till about the 7th, when a slight but distinct low pressure area was formed over West Bengal. On the 8th the feeble depression over Bengal was clearly marked, and in the wind directions over Northern India a general indraught was noticed towards the depression, while on the 9th there was a distinct tendency to a cyclonic circulation of winds over Bengal. The formation of this depression caused numerous showers, frequently accompanying local storms on the 8th and 9th in South-West, East, and North Bengal and Orissa, but the rainfall was heaviest in South-West Bengal. Rainfall then to a certain extent ceased, but still the barometer was low and below its normal height, and it was also irregular in its movements. There was also a tendency to a slight but distinctly marked depression in North and Central Bengal. The barometric changes of the 10th brought this into greater prominence on the 11th, and a strong inrush of southerly winds set in over South Bengal into the area of low pressure. Thunderstorms occurred on the 10th and 11th in North and East Bengal and the eastern districts of South-West Bengal, and some very heavy showers fell, more especially in the Dacca, Rungpore, and Julpigoree districts. A very rapid rise of the barometer occurred on the 12th, but it fell again rapidly on the 13th. Strong southerly

winds continued to blow on the 12th and 13th, notwithstanding the rapid barometric changes, and a second series of thunderstorms occurred on the 13th and 14th which were more general, and gave a larger amount of rain than the first series. They extended over East and North Bengal, and nearly the whole of South-West Bengal and North Behar. The rainfall during this series of storms was especially heavy in the Dacca, Furreedpore, Nuddea, Jessore, Mymensingh, Julpigoree and Cooch Behar districts. The barometer continued to move irregularly but slightly for some days longer, but the southerly winds fell off in strength on the 15th and 16th, and the weather became somewhat less unsettled. Conditions then became fairly normal, with rather strong westerly winds blowing across Behar into Bengal and rather strong winds across the Bengal coast into Orissa, South and East Bengal, and with increasing pressure. A few local showers again occurred at several stations in East and North Bengal on the 27th and 28th, but the amounts of rain registered were small. At this time an unusually rapid rise of the barometer was in progress in Upper India, which caused a very rapid and considerable extension of westerly winds across Behar into Central and North Bengal, as far east as Dinagepore, Serajunge, and Jessore, and which gave unusually low humidities to those districts for two days, but after this time the westerly winds retreated and were replaced by moist southerly winds. From this time to the end of the month there was no change of importance to record.

Pressure.—At the commencement of the month was slightly above the normal, but with the setting in of the disturbed conditions, the pressure oscillations became large, and in some cases the changes were as large as one and two-tenths of an inch. The average pressure of the province, however, for the first-half of the month was distinctly but only slightly above the normal, though in different districts the variations were much larger, decidedly deficient pressure being recorded in West and South-West Bengal. For the third week in the month the general pressure was again slightly in excess of the normal, but during the last week, over the greater part of the province, pressure was decidedly below the normal, the deficiency equalling 0.025 inch in South-West Bengal, 0.02 inch in North Bengal, and 0.01 inch in Orissa. The mean pressure of the province for the whole month has therefore been almost normal, and the average variation is not larger than about two thousandths of an inch. In the west of the province as represented by such stations as Calcutta, Burdwan, and Gya pressure has been distinctly below the normal, but at the eastern and northern stations pressure has been in excess, and the excess is very noticeable in the higher strata of the atmosphere, the largest excess being 0.021 inch at Darjeeling. In Assam pressure was in slight excess at Sibsagar, while it has been in defect at Dhubri and Silchar, the defect equalling 0.018 inch at the latter station.

Temperature.—There has been a steady and in some districts a rather rapid rise of temperature during almost the whole of the month, the rise being most rapid in such districts as South Behar and Chutia Nagpur. Comparing the average mean temperatures of each of the large meteorological districts of the province for the week ending 2nd March with those of the week ending 30th March, it is found that in South Behar there has been a rise of 11.2° in the mean temperature in the month, in Chutia Nagpur the rise has been 10.8°, in East and North Bengal it has been between 9° and 10°, in North Behar the mean temperature has risen 8.6°, in Orissa 6.4°, and in South-West Bengal 5.1°. There has therefore been an increase in the mean temperature of the province of 8.7° during the month. Comparing the average temperatures of the whole province with the normal for the month, the actual has been in excess by 0.8°, but in Chutia Nagpur the excess is no less than 2.1°.

Some particularly high maximum temperatures were recorded towards the close of the month, the hottest day being the 25th, and on this day the maximum temperature at Midnapore was 107.3°, at Bankoora 106.1° and at Raneeunge 105.8° while temperature of from 103° to 105° were recorded at Chyebassa, Burdwan, Gya, and Jessore.

The following table gives a comparative statement of the temperature variations for the four weeks of March at nine typical stations:—

Monthly variation table from the weekly comparison table during the month of March 1888.

	2ND MARCH 1888.			9TH MARCH 1888.			16TH MARCH 1888.			23RD MARCH 1888.			30TH MARCH 1888.		
	Variation of actual mean maximum temperature of week from the normal mean.	Variation of actual mean minimum temperature of week from the normal mean.	Variation of actual mean daily temperature of week from the normal mean.	Variation of actual mean maximum temperature of week from the normal mean.	Variation of actual mean minimum temperature of week from the normal mean.	Variation of actual mean daily temperature of week from the normal mean.	Variation of actual mean maximum temperature of week from the normal mean.	Variation of actual mean minimum temperature of week from the normal mean.	Variation of actual mean daily temperature of week from the normal mean.	Variation of actual mean maximum temperature of week from the normal mean.	Variation of actual mean minimum temperature of week from the normal mean.	Variation of actual mean daily temperature of week from the normal mean.	Variation of actual mean maximum temperature of week from the normal mean.	Variation of actual mean minimum temperature of week from the normal mean.	Variation of actual mean daily temperature of week from the normal mean.
Cuttack	+1.3	-0.4	+0.5	+1.7	-1.0	+0.4	+1.7	+1.5	+1.6	+0.5	+2.1	+1.3	+2.0	+0.3	+1.1
Calcutta (All- pur).	+1.3	-0.7	-1.2	+2.7	-3.0	-0.1	-1.7	+2.3	+0.3	+1.6	+2.1	+2.0	+1.2	+2.6	+1.9
Dacca	+1.6	-3.7	-1.1	+4.1	-0.7	+1.7	-6.8	-2.1	-4.4	-0.4	+3.7	-1.7	-0.7	+4.1	+1.7
Burdwan	+1.3	-3.6	-0.5	+3.4	+2.3	-0.1	+1.3	+1.9	+1.6	+3.0	+0.3	+2.1	+3.8	+1.7	+2.7
Patna (Banki- pur).	+1.7	+0.5	+1.1	+3.2	+2.1	+2.6	-1.9	+4.0	+1.0	+1.9	+2.0	+2.0	+1.1	+1.4	+1.2
Gya	+0.6	+0.6	+0.7	+2.8	+2.5	+2.6	+0.2	+3.3	+2.0	+1.2	+3.0	+2.1	+0.8	-1.0	-0.1
Furness	+0.2	+1.5	+0.6	+2.4	+2.6	+1.5	-4.9	+4.0	-0.5	-1.9	+3.3	+0.6	-0.1	-1.3	-0.7
Haridwar	+3.1	+1.1	+1.6	+2.6	+4.0	+3.3	+3.0	+2.8	+1.8	+2.2	+2.0	+2.0	+2.0	+1.0	+1.0
Darjeeling	+4.3	+4.0	+4.1	+4.1	+4.0	+4.1	-3.6	-0.3	-2.0	-4.4	+0.9	-1.3	+2.8	+5.2	+4.0

* Heavy rain.

Rainfall.—The periods of rainfall during the month have already been referred to under the general summary, and it only remains to state the amounts and the distribution. The heaviest falls have occurred in the districts of East Bengal, which have received an average amount of 3.35 inches, which is about 20 per cent. larger than the normal fall. North Bengal has received an average rainfall of 1.47 inches, which is also rather more than 20 per cent. in excess of the normal, while North Behar has received an average fall of 0.50 inch or about 30 per cent. in excess of the usual amount. In all other districts the falls have been below the normal. South-West Bengal has received an average amount of 1.01 inches or only two-thirds of the normal fall. In Orissa an average amount of 0.48 inch of rain has been recorded, which is, however, only a little over 40 per cent. of the normal fall, while in South Behar and Chutia Nagpur the falls have been so small in amount that they only average a few hundredths of an inch.

Taking up the rainfall rather more in detail, in Orissa the Pooree district has been almost rainless, while the Cuttack and Balasore districts have received moderate amounts of rain. In South-West Bengal the districts which have received very little rain are South-West Midnapore and South 24-Pergunnahs, and Bankoorah, while Midnapore, 24-Pergunnahs, Howrah, Hooghly, Burdwan, Beerbhoom, Moorshedabad, Jessore, and Khoolna districts have received moderate amounts, and Nuddea has received a fall in excess of the normal. In East Bengal, Noakholly, Furreedpore, Dacca, and Commillah districts have received decidedly heavy rain, considerably larger than the normal; Mymensingh has received a fall about equal to the normal, and Chittagong, Chittagong Hill Tracts, and Backergunge falls below the normal. In North Bengal, Darjeeling, Cooch Behar, Julpigoree, Rungpore, Rajshahye, and Pubna districts have received falls above the normal; Dinagepore a fall equal to the normal, and Bogra a fall decidedly below it. In North Behar the only districts which have received moderate rain are Purneah, North Bhagulpore and Durbhunga, while all the remaining districts in Behar and Chutia Nagpur, except the Sonthal Pergunnahs, have received very small amounts of rain, or in the case of Patna, South Bhagulpore, Monghyr, and Chyebassa districts no rain at all.

In Assam heavy rain has been received, and at Silchar during the month no less than 8.93 inches were received; at Sibsagar 6.41 inches were also recorded, while at Dhubri the fall was smaller and only equalled 2.78 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven Meteorological divisions of the Province for the month of March 1888:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.					RAINFALL.								
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1887.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	103.4	80.6	90.9	72.2	81.1	+0.1	0.48	1.16	-0.68	1.3	2.6	-1.3	46.87	58.27
South-West Bengal	107.3	83.9	94.0	69.7	81.9	+1.3	1.01	1.50	-0.49	2.3	3.9	-0.6	49.88	54.78
East Bengal	96.1	83.5	87.2	68.1	77.7	+0.3	3.35	2.80	+0.55	4.9	4.4	+0.5	61.24	79.40
North Bengal	101.3	81.0	88.8	63.3	76.1	-0.3	1.47	1.20	+0.27	3.1	2.5	+0.6	78.73	71.85
North Behar	99.0	82.2	80.2	62.9	76.1	+0.5	0.50	0.38	+0.12	1.0	1.2	-0.2	53.07	49.23
South Behar	103.0	84.4	93.4	63.7	79.5	+1.7	0.08	0.42	-0.34	0.6	1.5	-0.9	42.84	44.95
Chutia Nagpur	97.3	85.9	90.3	65.4	77.9	+2.1	0.05	0.95	-0.90	0.6	3.5	-1.9	46.56	51.99
Assam	93.3	85.4	83.5	64.0	73.7	+0.9	...	...	.....	...	...	...	...	...

* Chyebassa not included.
[Pooree not included.]

METEOROLOGICAL OFFICE, BENGAL.
The 10th April 1888.

ALEXANDER PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of March 1888.

	Inches.	Date.	Hour.
The mean pressure of the month	29.847		
The average pressure of March from 24 years' registers	29.869		
The highest pressure in the month	30.012	1st	10h.
The lowest pressure in the month	29.635	24th	16h.
The range of pressure	0.377		
Hours.			
The total number of hours of bright sunshine during the month	272.7		
The maximum possible number of hours of sunshine	371.3		
°			
The mean temperature of the month	80.1		
The average temperature of March from 24 years' registers	80.6		
The highest temperature in the month	98.9	24th	
The lowest temperature in the month	59.1	1st	
The range of temperature during the month	39.8		
The mean daily range of temperature	21.0		
The greatest range of temperature in one day	29.8	3rd	
Per cent.			
The mean humidity of the month	70		
The average humidity of March from 24 years' registers	66		
Inches.			
The mean vapour tension of the month	0.702		
The average vapour tension of March from 9 years' registers	0.702		
The mean cloud proportion of the month	2.86		
The average cloud proportion of March from 11 years' registers	2.31		
Inches.			
The total rainfall of the month	2.37		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	2.26		
The average fall of March from 48 years' registers	1.34		
The greatest fall in 24 hours	1.41	14th	
Days.			
The number of rainy days in the month	3		
The average number of rainy days in March from 24 years' registers	4		
°			
The mean maximum equilibrium temperature of solar radiation during the month	146.5		
The mean difference of sun and air temperatures	55.1		
The greatest sun temperature	151.9	23rd	
The greatest excess of sun over air temperature	59.6	13th	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	63.7		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	6.6		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	11.1	3rd	
Miles.			
The mean movement of the wind per day	110.5		
The greatest movement of the wind in one day	224.0	13th	
The greatest movement of the wind in one hour	19.0	13th, 1 to 2 p.m.	
The number of hours with winds from each of the 8 points—			

N. 15, NE. 7, E. 13, SE. 44, S. 185, SW. 249, W. 86, NW. 50, Calm 75.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 1.0° lower; and, finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

JOHN ELIOT,

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 9th April 1888.

Offg. Meteorological Reporter to the Govt. of India.

Meteorological Report of the Province of Ber

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.												
			AIR PRESSURE.			WIND.		TEMPERATURE.							
			Mean barometric height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
CENTRAL.	Poorce	Poorce	29.794	29.811	-.017	SSW	3.4	85.7	31st & 6th Apl.	77.8	31st Mar.	85.1	79.3	82.2	+2.1
		Gopalpore	29.849	29.870	-.021	SSW	3.67	87.0	5th "	75.1	3rd "	86.9	77.7	82.3	-1.3
	Cuttack	Cuttack	29.776	29.836	-.060	SW	21.1	99.5	3rd & 5th Apl.	73.8	31st Mar.	96.8	74.9	85.8	+1.0
	Balasore	Balasore	29.825	29.851	-.026	SSW	4.77	86.7	5th "	78.5	31st Mar. & 2nd Apl.	89.1	79.4	84.5	+0.6
	South-West Midnapore	Saugor Island	29.825	29.851	-.026	SSW	4.77	86.7	5th "	78.5	31st Mar. & 2nd Apl.	89.1	79.4	84.5	+0.6
SOUTH-WEST BENGAL.	South 24-Pergunnahs	Midnapore	29.825	29.851	-.026	S	12.5	105.4	6th "	73.8	31st Mar.	102.0	75.4	89.2	+3.0
	24-Pergunnahs	Howrah	29.808	29.820	-.012	SSW	13.1	98.4	5th "	74.2	31st "	112	75.4	84.8	+0.2
	Howrah	Burdwan	29.713	29.812	-.099	SW	9.0	104.6	4th "	74.4	5th Apl.	102.4	75.3	88.9	+3.0
	Hooghly	Bankoora	29.501	-	-	NW	117.0	106.1	3rd "	70.6	31st Mar.	104.0	74.3	89.2	-
	Burdwan	Bankoora	29.501	-	-	NW	117.0	106.1	3rd "	70.6	31st Mar.	104.0	74.3	89.2	-
	Beerbhoom	Rancegunge	29.391	29.794	-.046	SW, NW	9.5	106.5	3rd "	70.9	31st "	104.1	74.8	89.5	+3.5
	West Burdwan	Borhampore	29.732	29.810	-.078	SSW	11.5	102.7	5th "	71.8	31st "	100.4	74.2	87.3	+1.0
	Moorshedabad	Krishnaghar	29.730	29.805	-.075	SSW	12.9	103.6	4th "	73.7	6th Apl.	101.0	75.2	88.1	-
	Nuddea	Jessore	29.791	29.825	-.034	SSW	8.2	102.7	5th "	74.4	31st Mar.	98.9	76.9	87.9	+3.0
	Jessore	Jessore	29.791	29.825	-.034	SSW	8.2	102.7	5th "	74.4	31st Mar.	98.9	76.9	87.9	+3.0
EAST BENGAL.	Khoolna	Chittagong	29.791	29.825	-.034	SSW	8.2	102.7	5th "	74.4	31st Mar.	98.9	76.9	87.9	+3.0
	Chittagong	Chittagong	29.791	29.825	-.034	SSW	8.2	102.7	5th "	74.4	31st Mar.	98.9	76.9	87.9	+3.0
	Chittagong Hill Tracts	Demagiri	29.791	29.825	-.034	SSW	8.2	102.7	5th "	74.4	31st Mar.	98.9	76.9	87.9	+3.0
	Backergunge	Barrisal	29.848	29.860	-.012	S	12.6	91.3	5th & 6th Apl.	74.4	2nd Apl.	99.2	75.5	82.9	+3.0
	Noakhally	Noakhally	29.849	29.884	-.035	S	17.6	88.3	2nd & 5th Apl.	74.0	2nd "	87.6	76.1	81.9	+2.2
	Furzedpore	Furzedpore	29.825	29.872	-.047	S	17.0	88.5	4th & 6th Apl.	73.9	31st Mar.	86.6	75.4	81.0	-2.0
	Dacca	Dacca	29.825	29.847	-.022	SSW	20.4	95.2	5th "	75.1	31st "	92.7	76.8	84.8	+2.0
	Comillah	Comillah	29.832	29.868	-.036	S	16.9	91.3	1st, 3rd & 5th Apl.	72.3	2nd Apl.	90.9	74.7	82.8	+2.5
	Mymensingh	Mymensingh	29.770	29.828	-.058	SE	15.3	90.3	5th "	69.1	31st Mar.	89.7	73.5	81.6	+1.8
	Bogra	Bogra	29.734	29.797	-.063	SE	12.2	102.0	5th "	71.8	6th Apl.	97.5	73.7	85.6	.....
NORTH BENGAL.	Pubna	Seragunge	29.776	29.823	-.047	S	13.1	100.0	5th "	71.6	4th "	95.0	73.6	84.3	+1.8
	Rajshahiye	Ratanore Bazar	29.743	29.813	-.070	SE	8.7	93.4	5th "	63.7	6th "	97.4	69.8	83.6	+1.7
	Maldah	Maldah	29.726	-	-	NW	10.5	100.2	6th "	67.4	6th "	98.4	66.5	84.0	-
	Dinapore	Dinapore	29.658	29.797	-.139	SW	1.8	99.6	4th "	65.7	6th "	95.4	70.0	82.7	+1.2
	Rungpore	Rungpore	29.705	29.830	-.125	South-Westerly	16.8	97.8	4th "	68.5	1st "	91.6	70.7	81.2	+2.5
	Jalpaigoree	Jalpaigoree	29.642	29.834	-.192	NE & E	13.1	95.0	4th "	59.9	6th "	87.0	65.4	76.5	+1.0
	Cooch Behar	Cooch Behar	29.642	29.834	-.192	NE & E	13.1	95.0	4th "	59.9	6th "	87.0	65.4	76.5	+1.0
	Darjeeling Hill Tracts	Darjeeling	29.728	-	-	Calm	1.8	64.4	5th "	44.2	31st Mar.	60.2	48.9	54.6	+1.2
	Purneah	Purneah	29.683	29.848	-.165	Westerly	7.2	101.3	4th "	63.7	6th Apl.	96.5	67.6	82.0	-0.3
	North Bhagulpore	Purneah	29.683	29.848	-.165	Westerly	7.2	101.3	4th "	63.7	6th Apl.	96.5	67.6	82.0	-0.3
SOUTH BENGAL.	Mozufferpore	Mozufferpore	29.623	29.799	-.176	WSW	1.8	98.4	4th "	70.8	31st Mar., 1, & 6, Apl.	93.9	72.0	83.0	+2.2
	Durbhunga	Durbhunga	29.552	29.778	-.226	ESE, W & W	25.5	101.0	4th "	58.0	6th "	90.4	65.6	81.0	+2.2
	Chumpran	Motbari	29.528	29.792	-.264	W	18.2	94.5	3rd "	69.8	5th "	90.6	69.0	80.1	-2.1
	Baran	Chupra	29.528	29.792	-.264	W	18.2	94.5	3rd "	69.8	5th "	90.6	69.0	80.1	-2.1
	Shahabad	Dehree	29.436	29.785	-.349	South-Westerly	24.0	105.2	2nd "	70.0	31st Mar.	102.0	76.1	88.0	+5.5
		Buxar	29.571	29.811	-.240	W & W	17.3	103.4	2nd "	65.8	6th Apl.	99.3	70.2	84.7	+1.3
		Arrah	29.607	29.802	-.195	W	13.4	102.9	4th "	67.7	31st Mar. & 1st Apl.	100.3	69.7	85.0	+2.6
	Gya	Gya	29.567	29.809	-.242	W	12.5	103.5	1st "	64.7	1st "	101.5	68.7	85.1	-1.1
	Patna	Bankipore	29.626	29.808	-.182	W	12.5	102.5	4th "	64.9	3rd "	99.4	70.6	85.0	+0.9
	South Bhagulpore	Bhagulpore	29.649	29.810	-.161	W	15.0	98.4	1st & 3rd to 6th Apl.	68.0	1st "	97.4	71.9	84.6	+1.6
CHOTA NAGPUR.	Monghyr	Deonika	29.323	-	-	W	10.5	103.5	4th "	69.0	31st Mar.	101.0	73.8	87.9	+3.3
	South 24-Pergunnahs	Deonika	29.323	-	-	W	10.5	103.5	4th "	69.0	31st Mar.	101.0	73.8	87.9	+3.3
	Hazaribagh	Hazaribagh	27.834	29.790	-.056	NW	27.5	100.5	2nd, 3rd Apl.	68.0	6th Apl.	97.0	73.0	84.0	+4.4
	Lehardy	Ranchee	27.720	29.780	-.060	Westerly	15.5	101.2	3rd "	66.4	31st Mar.	97.9	69.7	83.8	+3.3
	Manbhum	Chyobassa	29.050	-	-	SSW	4.5	107.9	3rd "	69.7	31st "	104.8	78.9	89.3	+3.4

Explanation. - Summary. - The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871-1900. The humidity of the atmosphere is expressed as percentage, saturated air being represented by 100. A clear sky is denoted by "C" and an overcast sky by "O". The numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period 1871-1900. The mean in the district is denoted in figures divided by the number of stations. A rainy day is one on which at least hundredths of an inch fell.

for the week ending Friday, the 6th of April 1888.

Average humidity at 10 A.M.			Average cloud amount at 10 A.M. for week.			Rainfall of week at observing station.			DISTRICT OBSERVATIONS.										Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.	
									RAINFALL.													
									OF WEEK.			Since 1st of March.			Since 15th May 1887.			Average number of rainy days.				Normal number of rainy days.
												Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.					
81	0	—	—	Nil	0.14	0.08	0.08	—0.90	46.52	58.32	—11.80	0.0	0.4	Pooroo ...	Pooroo ...	ORISSA.						
78	3.0	—	—	—	—	—	—	—	—	—	—	—	—	Gopalpore ...	Gopalpore ...							
	1.00	0.33	0.07	0.16	0.70	1.33	—0.03	48.00	54.74	—6.65	0.2	0.4	Cuttack ...	Cuttack ...								
79	4.6	—	Nil	0.09	0.32	1.45	—1.13	62.92	65.44	—2.52	0.0	0.8	Saugor Island ...	South-West Midnapore ...	SOUTH-WEST BENGAL.							
54	0.1	—	Nil	0.13	0.70	2.19	—1.40	53.68	54.30	—0.62	0.0	0.5	Midnapore ...	South 24-Pergunnahs ...								
66	1.0	—	Nil	0.28	1.07	1.81	—0.74	44.28	55.35	—11.07	0.0	0.6	Calcutta ...	24-Pergunnahs ...								
45	0.7	0.08	0.05	0.27	0.78	1.74	—0.96	48.06	49.40	—1.43	0.7	0.5	Burdwan ...	Howrah ...	SOUTH-WEST BENGAL.							
39	0	0.12	0.07	0.04	0.20	1.30	—1.10	51.63	54.31	—2.66	0.8	0.2	Bankoora ...	Hooghly ...								
32	0	Nil	Nil	0.18	0.35	0.78	—0.43	49.09	54.23	—5.14	0.0	0.4	Raneegunge ...	Bankoora ...								
47	1.4	—	Nil	0.10	0.48	1.12	—0.64	60.60	51.73	+8.87	0.0	0.4	Berhampore ...	Beechhoon ...	SOUTH-WEST BENGAL.							
51	0.6	—	0.06	0.40	2.20	2.11	+0.09	46.65	52.63	—5.98	0.2	0.7	Krishnaghar ...	West Burdwan ...								
64	1.5	—	Nil	0.37	1.80	2.57	—0.68	45.31	57.59	—12.28	0.0	0.6	Jessore ...	Moorsheadabad ...								
			Nil	0.17	1.37	2.01	—0.64	102.44	117.39	—14.95	0.0	0.3	Chittagong ...	Nuddea ...	SOUTH-WEST BENGAL.							
75	5.9	—	Nil	0.24	1.62	2.41	—0.79	64.02	81.75	—17.73	0.0	0.6	Barrisal ...	Jessore ...								
75	6.4	—	Nil	0.43	3.74	4.15	—0.41	78.53	115.00	—36.47	0.0	0.8	Noakhully ...	Khoolna ...								
79	1.4	—	Nil	0.42	4.00	3.00	+1.00	41.73	60.02	—18.29	0.0	0.7	Furzedpore ...	Chittagong Hill Tracts ...	SOUTH-WEST BENGAL.							
72	4.3	—	Nil	0.47	4.07	3.40	+1.57	47.50	63.08	—15.58	0.0	0.8	Dacca ...	Backergunge ...								
68	3.4	—	0.34	0.34	6.27	4.45	+1.82	50.72	70.93	—20.21	0.3	0.9	Commillah ...	Noakhully ...								
73	4.3	0.77	0.23	0.41	2.40	2.51	—0.02	63.97	71.16	—7.19	0.4	0.7	Mymensingh ...	Furzedpore ...	SOUTH-WEST BENGAL.							
53	1.6	—	Nil	0.11	0.59	1.25	—0.66	61.55	59.29	+2.26	0.0	0.6	Bogra ...	Mymensingh ...								
61	3.4	—	Nil	0.46	1.88	1.92	—0.04	47.80	56.83	—9.03	0.0	0.7	Serajgunga ...	Bogra ...								
48	0	Nil	Nil	0.31	1.20	1.18	+0.02	51.90	56.19	—4.29	0.0	0.3	Rampore Beaulah ...	Palur ...	SOUTH-WEST BENGAL.							
49	0.9	Nil	Nil	0.10	0.17	0.73	—0.56	47.02	56.21	—9.19	0.0	0.4	Maldah ...	Rampore Beaulah ...								
38	1.7	—	Nil	0.07	0.69	0.75	—0.06	70.08	57.37	+12.71	0.0	0.3	Dinapore ...	Maldah ...								
19	0.4	Nil	Nil	0.35	2.40	1.74	+0.06	83.49	75.64	+7.85	0.0	0.6	Rungpore ...	Dinapore ...	SOUTH-WEST BENGAL.							
62	4.0	Nil	0.35	0.61	2.60	2.15	+0.24	120.72	113.39	+7.33	0.8	0.9	Jalpaigore ...	Rungpore ...								
64	4.0	Nil	0.01	0.60	2.93	2.57	+0.36	121.70	124.42	—2.66	0.2	1.0	Darjeeling ...	Jalpaigore ...								
46	0	Nil	Nil	0.11	0.97	0.55	+0.42	66.33	59.13	+7.20	0.0	0.4	Purneah ...	Cooh Behar ...	SOUTH-WEST BENGAL.							
			Nil	0.06	0.22	0.54	—0.32	47.57	44.29	+3.28	0.0	0.3	Mozufferpore ...	Darjeeling Hill Tracts ...								
28	0	Nil	Nil	0.03	0.59	0.30	+0.29	50.50	45.11	+5.45	0.0	0.2	Darbhanga ...	Purneah ...								
31	1.6	Nil	Nil	0.08	0.15	0.45	—0.30	49.97	47.41	+2.56	0.0	0.3	Motihari ...	North Bhagulpore ...	SOUTH-WEST BENGAL.							
39	0	Nil	Nil	0.02	0.12	0.20	—0.17	40.37	43.54	—3.47	0.0	0.2	Chupra ...	Motihari ...								
19	0.3	Nil	Nil	0.02	0.12	0.20	—0.17	40.37	43.54	—3.47	0.0	0.2	Chupra ...	Champur ...								
24	0	Drops	Nil	0.06	0.04	0.43	—0.36	38.67	41.21	—2.54	0.0	0.2	Shahabad ...	Saran ...	SOUTH-WEST BENGAL.							
28	0	—	Nil	0.03	0.04	0.45	—0.41	39.34	42.61	—3.27	0.0	0.2	Gya ...	Shahabad ...								
28	0	—	Nil	0.04	Nil	0.35	—0.35	36.81	42.37	—5.56	0.0	0.2	Bankipore ...	Gya ...								
28	0	—	Nil	0.04	Nil	0.35	—0.35	36.81	42.37	—5.56	0.0	0.2	Bankipore ...	Patna ...	SOUTH-WEST BENGAL.							
28	0.1	—	Nil	0.05	Nil	0.40	—0.40	43.60	44.16	—0.56	0.0	0.2	Bagulpore ...	South Bhagulpore ...								
28	0	—	Nil	0.06	0.25	0.04	—0.30	53.41	51.08	+1.73	0.0	0.3	Deoria ...	Monchyr ...								
11	1.1	—	Nil	0.02	0.03	0.07	—0.04	48.07	52.13	—4.06	0.0	0.2	Hazaribagh ...	Southal Pergunnahs ...	CHOTA NAGPUR.							
20	0.3	—	Nil	0.03	0.18	0.23	—0.75	46.85	49.25	—2.40	0.0	0.3	Ranchi ...	Hazaribagh ...								
22	0	—	Nil	0.03	0.06	1.37	—1.29	53.11	53.63	—0.57	1.0	0.6	Chybeassa ...	Lohardugga ...								

The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. Under the head District observations of rainfall the normal means are the means of the district, i.e., the unweighted average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional stations.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 6th of April 1888.

Meteorological division.	District.	Station.	RAINFALL.						TOTAL.		Total rain-fall since 1st of March.	Average total run-fall from 1st of March.	Total rain-fall since 15th May 1887.	Average rain-fall from 15th May to date.
			Saturday, 31st March.	Sunday, 1st April.	Monday, 2nd April.	Tuesday, 3rd April.	Wednesday, 4th April.	Thursday, 5th April.	Friday, 6th April.	Number of rainy days.	of Rainfall week.			
ORTHA	Pooree	Pooree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.06	0.65	56.55
		Khuriah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.04	0.99	56.13
		Banpur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.14	0.89	56.75
		False Point	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	1.35	56.09
		Gop	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.46	?	56.22
	Cuttack	Pipili	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.46	?	56.22
		Jagatsingapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.93	53.04
		Barki	.....	.....	.....	0.32	0.03	.....	0.02	3	0.7	0.42	1.82	46.05
		Chittack	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.15	1.37	55.45
		Kendrapara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.74	1.02	55.70
	Balasore	Jajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.23	1.52	55.89
		Dharmasalla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44.40
		Salipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51.21
		Chandbali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1.43	43.00
		Bhuddruck	.....	.....	.....	.....	0.49	.....	.....	1	0.49	1.79	1.66	48.88
SOUTH-WEST BENGAL.	Midnapore	Sorah	.....	.....	.....	.....	0.38	0.10	.....	2	0.48	1.30	1.81	42.00
		Balasore	.....	.....	.....	.....	0.12	0.32	.....	2	0.44	1.34	1.71	46.18
		Jellusore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.46	1.10	40.65
		Baripadah	.....	.....	.....	.....	0.06	.....	.....	1	0.06	0.37	1.53	46.13
		Baripadah	.....	.....	.....	.....	0.06	.....	.....	1	0.06	0.37	1.53	46.13
	24-Pergunnahs	Diamond Har-	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.30	1.62	61.65
		bour	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.31	?	51.32
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.65	1.96	57.20
		Alipore Jail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.54	2.08	43.01
		Barnackpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.39	1.90	45.02
	Howrah	Dum-Dum	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.47	1.77	43.43
		Baraset	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.05	2.37	54.26
		Buseerhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.10	1.92	40.91
		Howrah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.71	1.29	41.74
		Moheareka (Ooloberiah.)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.71	1.29	41.74
	Hooghly	Serampore	.....	.....	.....	.....	0.01	.....	.....	1	0.01	0.58	1.74	37.30
		Hooghly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.68	1.52	42.57
		Johanabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.57	1.32	47.13
	Burdwan	Culna	.....	.....	.....	.....	0.06	.....	.....	1	0.06	1.19	1.63	40.37
		Burdwan	.....	.....	.....	.....	0.08	.....	.....	1	0.08	0.16	1.93	47.45
		Cutwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.99	1.66	56.43
		Raneegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.11	0.78	47.00
		Mankur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.97	?	44.50
	Bankoora	Bankoora	.....	.....	.....	.....	0.11	.....	.....	1	0.11	0.15	1.44	45.32
		Bishnupore	.....	.....	.....	.....	0.08	0.07	.....	2	0.15	0.50	1.46	57.52
		Maliara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.12	0.79	50.37
		Khatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.46	5.12	58.80
		Indra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.20	?	42.04
	Beerbhoom	Kotalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.03	?	39.40
		Anda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50.40
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53.04
		Kasipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.76	?	38.00
		Sonamukhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.76	?	38.00
	Nuddea	Bh. Soory	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.25	0.76	51.88
		Hetampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.66	0.66	51.87
		Kampore Hunt	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.93	0.93	45.40
		Botpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42.45
		Ranaghat	.....	.....	.....	.....	.....	0.28	.....	1	0.28	1.77	1.88	53.82
	Kheolna	Kishinagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.72	1.81	44.33
		Choondanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.84	2.23	45.28
		Meherpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.78	2.59	51.72
		Kooshtia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.86	2.09	48.85
		Kooshtia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.86	2.09	48.85
	Jessore	Satkhira	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.06	2.02	46.03
		Bagirhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.89	2.10	54.94
		Kheolna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.21	2.40	48.21
		Narnil	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.06	2.38	50.78
		Jessore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.90	2.90	44.11
	Moorshedabad	Jhenidah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.01	2.90	47.03
		Mukoorah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.15	2.87	35.99
		Bongong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.82	2.05	58.59
		Kandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.25	1.17	48.07
		Berhampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.20	1.18	57.84
	Chittagong	Lalbach	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.95	1.02	70.20
		Azimungunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.70	1.25	61.10
		Jungipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.23	0.93	63.47
		Lakola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.17	1.13	62.79
		Aktriganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.01	?	54.45
	Chittagong Hill Tracts.	Patkabari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.70	?	?
		Cox's Bazar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.17	2.03	124.78
		Chittagong		.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.55	2.50	80.13
		Kutubdia		.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.03	?	79.48
		Satkanya		.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.10	?	65.61
	Baokergunge	Rangamati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.47	3.59	60.01
		Kuma	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.15	3.17	66.71
		Patuakla ly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.57	1.95	67.79
		Purozopora	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.14	1.73	68.38
		Burival	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.16	2.55	64.90
	Bhola	Bhola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.02	2.09	61.26
		Bhola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.02	2.09	61.26

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 6th of April 1888—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of March.	Average total rain-fall from 1st of March.	Total rain-fall since 16th May 1887.	Average rainfall from 16th May to date.
			Saturday, 31st March.	Sunday, 1st April.	Monday, 2nd April.	Tuesday, 3rd April.	Wednesday, 4th April.	Thursday, 5th April.	Friday, 6th April.	Number of rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Noakhali	Gournadi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.05	?	43.40	?
		Bauphal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.91	?	61.07	?
		Noakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.85	3.95	77.03	114.57
		Fenny	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4.62	4.31	79.39	115.03
		Harishpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.20	?	77.07	?
	Furreedpore	Ramganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6.11	?	69.46	?
		Madaripore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.38	3.23	38.59	61.08
		Furreedpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5.69	3.17	45.30	61.82
	Dacca	Goalundo	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.92	2.59	41.24	60.98
		Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5.36	4.61	46.97	78.97
		Dacca	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5.57	3.10	53.48	64.53
		Narainkunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6.22	3.19	50.82	60.19
		Munickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.71	2.37	38.93	54.83
	Hill Tipperah	Jaydebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4.01	?	55.94	?
		Agartola	.....	1.10	.....	.....	.....	.....	.....	1	1.10	8.10	4.77	53.31	68.58
		Comilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.57	4.30	53.67	62.95
		Chandpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5.55	3.54	46.42	60.47
		Brahmunberia	.....	1.07	.....	.....	.....	.....	.....	1	1.07	7.88	5.18	49.11	60.70
	Mymensingh	Ramchandrapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.62	?	43.12	?
		Nasirnapur	.....	0.30	.....	.....	.....	.....	.....	1	0.30	4.24	?	36.15	?
		Daudkandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.23	?	39.70	?
		Karba	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8.60	?	52.76	?
		Laksham	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.19	?	35.40	?
NORTH BENGAL.	Pubna	Kishoregunge	.....	0.42	.....	.....	.....	.....	.....	1	0.42	2.83	3.85	61.60	75.11
		Atin (Tangail)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.50	1.62	42.72	59.13
		Mymensingh	.....	0.75	.....	.....	.....	.....	.....	1	0.75	2.74	2.70	72.20	77.08
		Jamalganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.65	1.80	63.51	68.24
		Neitokona	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4.73	2.61	70.72	74.50
	Bogra	Subornakhalley	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.90	?	53.15	?
		Durgapore	.....	1.20	.....	.....	.....	.....	.....	1	1.20	5.86	?	121.77	?
		Dewanganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.90	?	81.85	?
		Pubna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.19	2.21	41.64	58.15
		Seraingunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.57	1.63	53.91	55.50
	Rajshah	Sherpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.97	1.56	49.26	61.59
		Nowshilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.23	1.30	60.33	66.40
		Bogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.16	1.19	67.57	62.79
		Pauchibibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.66	0.91	68.00	66.15
		Beaulah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.99	1.08	54.79	54.79
	Maldah	Nattore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.49	1.27	50.39	67.53
		Naggaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.48	?	61.30	?
		Lalpara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.64	?	37.32	?
		Monda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.46	?	63.18	?
		Maldah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.01	0.87	49.83	53.18
	Dinapore	Chanchal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.33	0.49	44.16	59.14
		Gajol	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.30	?	61.59	?
		Sibganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	?	63.95	?
		Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.23	0.80	63.90	59.15
		Churamon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.48	0.46	59.31	53.42
	Rungpore	Raigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.88	0.75	74.51	68.20
		Dinapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.66	1.13	90.00	64.11
		Balorghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.94	0.63	59.05	62.07
		Bhawanigunge (Gyalanda)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.78	1.77	60.34	53.64
		Rungpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.08	1.45	83.69	76.20
	Jalpigore	Kurigram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.30	2.43	77.05	77.05
		Bagdogra (Niphamsari)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.39	1.33	106.33	85.19
		Ulipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3.12	?	61.61	?
		Jalpigore	.....	0.11	.....	.....	.....	.....	.....	1	0.11	3.46	2.92	129.17	119.03
		Alipore Dour	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.77	?	142.94	?
NORTH BENGAL.	Cooch Behar	Pallacotta	.....	0.79	.....	.....	.....	.....	.....	1	0.79	4.97	?	147.07	?
		Debigunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.22	?	98.37	?
		Dinhatia	.....	0.11	.....	.....	.....	.....	.....	1	0.11	2.47	1.95	104.47	97.01
		Cooch Behar	.....	1.50	.....	.....	.....	.....	.....	1	1.50	3.89	2.91	126.52	121.55
		Mickligunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.40	1.89	123.96	108.71
	Darjeeling Hill	Matabhanga	.....	0.01	.....	.....	.....	.....	.....	1	0.01	2.19	3.18	119.38	120.58
		Buxa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.10	4.28	175.85	107.69
		Siliguri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2.03	1.54	110.97	134.04
		Darjeeling	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.97	2.54	114.71	118.34
		Kalimpong	.....	0.03	.....	.....	.....	.....	.....	1	0.03	1.96	1.90	83.73	83.68
	Purneah	Kiseogunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.35	0.73	85.20	70.85
		Arracah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.30	0.70	68.39	64.39
		Purneah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.65	0.57	67.27	61.50
		Gondwara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.42	?	?	?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.75	?	60.20	?
	North Bhagalpore	Katiari	.....	.....	.....	.....	.....	.....	.....	1	0.64	0.64	?	70.93	?
		Kaliaganj	.....	0.04	.....	.....	.....	.....	.....	Nil	Nil	1.24	0.37	55.58	50.25
		Maddapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	0.44	52.32	45.50
		Boopool	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.33	?	67.13	?
		Protasganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.10	0.24	44.50	43.33
	Durbhanga	Tajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1.05	0.24	53.93	46.17
		Durbhanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.63	0.44	50.23	45.46
		Madhubani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.96	?	58.19	?
		Bahera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?	40.52	?
		Bahera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.40	0.73	60.74	43.01
	Mogaerpore	Nitambarhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.23	0.47	44.18	44.37
		Mogaerpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.03	0.43	37.68	43.23
		Hajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41.04	?
		Tara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Mohar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.50	?	?	?
	Champaner	Singar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.20	?	?	?
		Puri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Motihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.46	59.89	44.35
		Botia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.30	0.46	40.12	50.27
		Barua	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.25	?	59.09	?

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 6th of April 1888—concl'd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of March.	Average total rain-fall from 1st of March.	Total rain-fall since 15th May 1887.	Average rainfall from 15th May to date.
			Saturday 31st March.	Sunday 1st April.	Monday 2nd April.	Tuesday 3rd April.	Wednesday 4th April.	Thursday 5th April.	Friday 6th April.	Number of rainy days.	of Rainfall week.				
NORTH BEHAR—concluded	Saran	Gopalgunge ...	...	...	...	...	...	...	...	Nil	Nil	0.07	0.14	42.05	41.90
		Sewah ...	...	...	...	...	...	...	...	Nil	Nil	0.28	0.35	39.74	43.11
SOUTH BEHAR	Shahabad	Chunar ...	...	...	...	...	...	...	...	Nil	Nil	0.31	0.34	38.70	41.45
		Buxar ...	...	...	...	...	...	...	...	Nil	Nil	0.13	?	39.76	?
		Deoria ...	...	...	...	...	...	...	...	Nil	Nil	0.06	0.06	41.88	41.94
		Rhubooh ...	...	...	...	...	...	...	...	Nil	Nil	0.14	0.31	36.58	41.68
		Rasra ...	...	...	...	...	...	...	...	Nil	Nil	0.10	0.10	41.34	41.07
		Arran ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Mohania ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
	Gya	Aurungabad ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.43	22.96	43.94
		Gya ...	...	...	...	...	...	...	...	Nil	Nil	0.08	0.50	43.47	43.41
		Nowadah ...	...	...	...	...	...	...	...	Nil	Nil	0.07	0.50	36.61	41.74
		Jehanabad ...	...	...	...	...	...	...	...	Nil	Nil	?	0.44	46.77	41.43
		Arwal ...	...	...	...	...	...	...	...	Nil	Nil	?	?	41.13	?
		Bandanagar ...	...	...	...	...	...	...	...	Nil	Nil	?	?	28.61	?
		Sherrghati ...	...	...	...	...	...	...	...	Nil	Nil	?	?	36.45	?
		Rajauli ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Pakra Harwar ...	...	...	...	...	...	...	...	Nil	Nil	?	?	22.24	?
	Patna	Patna ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.37	37.17	43.12
		Dumra ...	...	...	...	...	...	...	...	Nil	Nil	0.24	0.24	38.44	42.16
		Behar ...	...	...	...	...	...	...	...	Nil	Nil	0.30	0.30	35.54	41.16
		Barri ...	...	...	...	...	...	...	...	Nil	Nil	0.43	0.43	36.01	40.23
		Buckram ...	...	...	...	...	...	...	...	Nil	Nil	?	?	40.65	?
		Hilsa ...	...	...	...	0.03	...	...	...	1	0.03	0.03	?	34.57	?
	Monghyr	Begoonah ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.26	49.68	40.41
		Monghyr ...	...	...	...	0.02	...	...	...	1	0.02	0.02	0.37	47.26	47.40
		Jama ...	...	...	...	...	...	...	...	Nil	Nil	?	0.50	40.02	44.28
		Gopri ...	...	...	...	...	...	...	...	Nil	Nil	?	?	42.63	?
		Sheikpura ...	...	...	...	...	...	...	...	Nil	Nil	?	0.42	28.58	?
	South Dinaghpore	Dinaghpore ...	...	...	...	...	...	...	...	Nil	Nil	?	0.42	41.21	41.34
		Bhuxa ...	...	...	...	...	...	...	...	Nil	Nil	?	0.41	39.06	43.08
		Kolga ...	...	...	...	...	...	...	...	Nil	Nil	?	?	43.45	?
	Sonthal Pergunnahs	Kajmohal ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.35	57.98	52.51
		Godda ...	...	...	...	...	...	...	...	Nil	Nil	?	0.47	49.54	43.87
		Pakour ...	...	...	...	...	...	...	...	Nil	Nil	0.34	0.68	73.63	54.37
		Nya Duomka ...	...	...	...	...	...	...	...	Nil	Nil	0.33	0.89	40.04	55.83
		Deoghar ...	...	...	...	...	...	...	...	Nil	Nil	0.63	0.68	47.99	51.58
		Jamtara ...	...	...	...	...	...	...	...	Nil	Nil	0.19	0.79	50.24	50.95
		Simra ...	...	...	...	...	...	...	...	Nil	Nil	?	?	36.81	?
		Amthar ...	...	...	...	...	...	...	...	Nil	Nil	0.02	?	?	?
CHUTIA NAG-PUR.	Hazratnagar	Pachmura ...	...	...	...	...	...	...	...	Nil	Nil	Nil	0.70	42.00	40.10
		(Guridi) ...	...	...	...	...	...	...	...	Nil	Nil	0.07	0.78	47.38	49.70
		Hazratnagar ...	...	...	...	...	...	...	...	Nil	Nil	0.08	1.40	41.27	48.00
		Somnagar ...	...	...	...	...	...	...	...	Nil	Nil	?	0.91	40.51	40.51
		Manuadi Hills ...	...	...	...	...	...	...	...	Nil	Nil	?	1.02	58.60	64.06
		Jhoomrahi Hills ...	...	...	...	...	...	...	...	Nil	Nil	?	?	39.70	?
		Baria ...	...	...	...	...	...	...	...	Nil	Nil	0.13	?	60.10	?
		Chatra ...	...	...	...	...	...	...	...	Nil	Nil	?	?	72.46	?
		Karagdeha ...	...	...	...	...	...	...	...	Nil	Nil	?	?	61.64	?
		Kamphar ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
	Lohardugga	Lohardugga ...	...	...	...	...	...	...	...	Nil	Nil	0.42	?	57.59	?
		Kanchi ...	...	...	...	...	...	...	...	Nil	Nil	?	1.28	58.38	54.30
		Palamow ...	...	...	...	...	...	...	...	Nil	Nil	?	0.71	50.71	51.28
		Silli ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Balumat ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Hosseinabad ...	...	...	...	...	...	...	...	Nil	Nil	0.09	?	35.30	?
		Gurwah ...	...	...	...	...	...	...	...	Nil	Nil	?	?	54.85	?
	Singhbhum	Cuzumassa ...	...	...	...	0.08	...	...	...	1	0.08	0.08	1.37	53.11	53.06
		Chakrahar-pore ...	...	...	...	0.13	...	...	...	1	0.13	0.27	?	41.40	?
		Chatalla ...	...	...	...	0.15	...	...	...	1	0.15	0.15	?	55.91	?
		Baharagura ...	...	...	...	...	...	...	...	Nil	Nil	?	?	41.15	?
	Manbhum	Parul ...	...	...	...	...	...	...	...	Nil	Nil	?	1.15	46.53	51.28
		Gobindpore ...	...	...	...	...	...	...	...	Nil	Nil	0.36	0.58	29.79	47.23
		Raghunath-pore ...	...	...	...	...	...	...	...	Nil	Nil	?	?	38.94	?
		Barraboom ...	...	...	...	...	...	...	...	Nil	Nil	?	?	43.31	?
		Jhalda ...	...	...	...	...	...	...	...	Nil	Nil	?	?	?	?
		Chas ...	...	...	...	...	...	...	...	Nil	Nil	0.13	?	?	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 10th April 1888.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 6TH APRIL 1888.

THE meteorological conditions and changes in Bengal during the past week call for little or no comment. Over the greater part of the Province weather has been of the normal hot weather character; dry westerly and south-westerly winds have generally obtained, temperature has been very high, while pressure has oscillated in the usual manner, and there has, at the great majority of stations, been a complete absence of rain, though, in a few instances, owing to slightly disturbed conditions, local storms occurred on one or two days. On the 31st March and 1st April a few small storms gave rain to some of the stations in North Bengal, close to the hills, and to the Mymensingh and Tipperah districts in East Bengal. These were probably connected with disturbed conditions over Assam and Cachar, for a slight barometric depression was reported over this area, which gave rise to moderate rain. Again, on the 3rd and 4th, a few showers were reported in Orissa and at some stations in South-West Bengal and Chutia Nagpur, but the amounts were generally small. These latter unsettled conditions were apparently connected with a rather rapid fall of pressure which took place over South Bengal at this time. With these exceptions, fine settled weather has obtained throughout the week.

Pressure.—A rather rapid fall of pressure took place on 31st March, on which day slightly disturbed conditions existed over East and North Bengal. On the 1st April, however, an almost equal rise of pressure took place, but this was followed by a fall which lasted for three days, and on the 4th instant the fall was decidedly rapid. Disturbed conditions again set in with the falling pressure, but on the 5th and 6th pressure rose steadily and again weather became settled. During the greater part of the week, therefore, pressure has been falling, and the average pressure for the period has been decidedly below the normal, the mean for the whole week for the Province being 0.045 inch in defect. The defect has been fairly equally distributed over the whole Province.

Temperature.—Has again been very high almost throughout the week, and maximum temperatures in excess of 100° have been reported on one or more days at no less than 21 out of the 39 reporting stations in the plains. The following very high maximum temperatures have been registered:—

At Chyebassa, on the 3rd April	...	...	...	107.9°
„ Raneegunge „ 3rd „	...	...	...	106.5°
„ Bankoorah „ 3rd „	...	...	...	106.1°
„ Midnapore „ 6th „	...	...	...	105.4°
„ Dehree „ 2nd „	...	...	...	105.2°
„ Burdwan „ 4th „	...	...	...	104.6°

The mean temperature for the week has consequently been above the normal in all districts, and the general temperature for the whole Province shows an excess of no less than two degrees, while in Chutia Nagpur the excess equals the large amount of 3.3°.

The actual temperatures recorded and their variation from the normal are clearly seen in the following table where the temperature data at eight typical stations in the Province are given:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 6th April 1888.

	Normal mean maxi- mum tem- perature for the week ending 6th April.	Actual mean maxi- mum tem- perature for the week ending 6th April 1888.	Variation of actual mean from the nor- mal.	Normal mean mini- mum tem- perature for the week ending 6th April.	Actual mean mini- mum tem- perature for the week ending 6th April 1888.	Variation of actual mean from the nor- mal.	Normal mean daily tempera- ture for the week ending 6th April.	Actual mean daily tempera- ture for the week ending 6th April 1888.	Variation of actual mean from the nor- mal.
Calcutta	95.1	94.2	-0.9	74.0	75.4	+1.4	84.6	84.8	+0.2
Dacca	92.5	92.7	+0.2	73.0	76.8	+3.8	82.8	84.5	+2.0
Burdwan	98.4	102.4	+4.0	73.4	75.3	+1.9	85.9	88.9	+3.0
Patna	98.0	99.4	+1.4	70.2	70.6	+0.4	84.1	85.0	+0.9
Gya	100.0	101.5	+1.5	72.3	68.7	-3.6	86.2	85.1	-1.1
Purneah	96.5	96.5	0	68.0	67.5	-0.5	82.3	82.0	-0.3
Hazribagh	94.4	97.9	+3.5	68.6	72.0	+3.4	81.5	84.9	+3.4
Darjeeling	60.6	60.2	-0.3	46.2	48.2	+2.0	55.4	54.6	-0.8

Rainfall.—The only meteorological divisions which have received an average rainfall exceeding a tenth of an inch are Orissa and East Bengal. South-West and North Bengal and Chutia Nagpur have received very small falls, but so small as to be of little importance; while Behar has been practically, if not absolutely, rainless. The largest rainfall has been received in the Comillah district, the stations in which average rather more than half an inch, while in the Balasore, Julpigoree, and Ooooh Behar districts the falls average from a quarter to half an inch of rain.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 6th of April 1888 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of March.		Since 15th May 1897.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation	Average.	Normal average.	Average.	Normal average.
Orissa	90.5	73.8	80.6	77.3	83.4	+0.9	0.12	0.10	-0.07	0.5	0.5	0	0.00	1.32	47.01	56.43
South-West Bengal ...	100.5	70.6	90.6	75.7	87.7	+2.2	0.02	0.24	-0.22	0.2	0.6	-0.4	1.02	1.71	49.80	54.97
East Bengal	95.2	69.1	80.6	76.3	82.5	+1.6	0.13	0.40	-0.27	0.2	0.8	-0.6	3.45	3.15	61.40	79.77
North Bengal	102.0	59.9	94.7	70.4	82.6	+1.6	0.07	0.29	-0.22	0.2	0.6	-0.4	1.47	1.47	75.72	72.22
North Behar	101.3	58.0	94.4	68.7	81.5	+0.5	Nil	0.07	-0.07	0.0	0.3	-0.3	0.50	0.44	53.07	49.40
South Behar	105.2	64.7	100.3	71.4	85.8	+2.2	Nil	0.05	-0.05	0.0	0.2	-0.2	0.08	0.45	42.85	44.91
Chutia Nagpur	101.2*	68.4*	97.9*	70.9*	84.4*	+3.3*	0.01	0.00	-0.05	0.1	0.3	-0.2	0.00	0.09	46.59	51.13

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;

The 10th April 1888.

A. PEDLER,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 1st to 7th April 1888.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.	
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.			
1888.		°		Inches	°	°	°	°	°	Inches	°	%			Inches		
April	1st	146.8	8.4	29.811	83.0	89.4	14.2	75.2	77.6	0.878	75.3	79	SSW and S	...	139	Nil	Chiefly clear, p.
"	2nd	148.6	9.8	769	83.4	94.4	19.5	74.9	77.8	.880	75.4	78	SSW and S	...	170	"	Clear, p.
"	3rd	152.2	5.4	731	85.7	94.7	17.0	77.7	79.2	.914	76.5	77	SSW	...	106	"	Chiefly cloudy, o.
"	4th	151.2	8.8	683	86.2	98.4	22.6	75.8	76.9	.801	72.5	66	WSW and SSW	...	114	"	Clear.
"	5th	150.5	9.4	701	85.9	97.6	22.4	75.2	76.3	.782	71.8	67	SSW and W	...	76	"	Clear, p.
"	6th	149.4	9.0	721	85.4	96.5	21.2	75.3	78.3	.873	75.1	74	SW by W, and SSW.	...	121	"	Chiefly clear, p.
"	7th	147.4	8.6	655	84.6	93.5	16.2	77.3	78.2	.878	75.3	74	SW, SSW and S	...	185	"	Chiefly cloudy,

The mean pressure of the seven days	...	...	...	Inches.
The average pressure of the corresponding period for 24 years, S. G.'s Office	...	...	...	29.725
The total number of hours of bright sunshine	...	...	...	Hours.
The maximum possible number of hours of sunshine	...	...	...	59.4
The mean temperature of the seven days	...	...	...	°
The average temperature of the corresponding period for 24 years, S. G.'s Office	...	...	...	84.8
The extreme variation of temperature	...	...	...	84.3
The maximum temperature	...	...	...	23.5
	...	...	...	98.4
The highest velocity of the wind in one hour	...	...	...	Miles.
	...	...	...	14
The highest pressure of wind on one square foot	...	...	...	lbs.
	...	...	...	Not measurable.
The mean relative humidity	...	...	...	%
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	...	...	...	74
	...	...	...	67
The total fall of rain from 1st to 7th April 1888	...	...	...	Inches.
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	Nil
The total fall from 1st January to 7th April 1888	...	...	...	0.39
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	4.89
	...	...	...	3.16

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h., 10h., 16h. and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, d dew.

JOHN ELIOT,

Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 9th April 1888.

Abstract of the Results of the Thermometric Observations taken at the Meteorological Office, Chowringhee, in the month of March 1888.

The mean temperature during the month	...	...	81.0	Date,
The highest temperature during the month	...	...	101.2	24th.
The lowest temperature during the month	...	...	58.9	1st.
The range of temperature during the month	...	...	42.3	
The mean daily range of temperature during the month	...	...	23.1	
The greatest range of temperature in one day during the month	...	...	32.3	3rd.
				°/°
The mean humidity during the month	...	...	67	
				Inches.
The mean vapour tension during the month	...	...	7.12	
The total rainfall of the month	...	...	1.13	
The greatest fall in 24 hours	...	...	0.52	15th.
				Days.
The number of rainy days in the month	...	...	3	

JOHN ELIOT,

Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;

The 9th April 1888.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 1st to 7th April 1888.

M. N. H.		Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
			Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1888.			°	°	°	°	°	Inches.	°	%	Inches.
April	...	1st	82.3	92.0	17.0	75.0	78.1	.906	76.3	82	Nil.
"	...	2nd	83.6	95.8	21.0	74.8	78.6	.912	76.5	76	"
"	...	3rd	85.3	97.2	19.6	77.6	79.1	.911	76.4	73	"
"	...	4th	86.1	100.4	25.4	75.0	76.0	.758	70.9	60	"
"	...	5th	86.1	100.0	24.4	75.6	75.4	.737	70.1	59	"
"	...	6th	85.5	98.8	23.0	75.8	77.1	.818	73.2	66	"
"	...	7th	84.8	95.8	18.5	77.3	80.2	.971	76.3	81	"

The mean temperature of the seven days	...	...	...	84.9
The extreme variation of temperature	...	...	...	25.6
The maximum temperature	...	...	...	100.4
				°/°
The mean relative humidity	...	...	...	72
				Inches.
The total fall of rain from 1st to 7th April 1888	...	...	...	Nil.

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;

The 9th April 1888.

JOHN ELIOT,

Offg. Meteorological Reporter to the Govt. of India

MEMORANDUM.

From the annexed table exhibiting the mortuary statistics of the districts in Bengal (excluding Hariharganj outpost in Lohardugga, from which no return has yet been received) for the month of January 1888, it appears—

1. That the deaths of 138,749 persons were registered among a population of 66,163,884, or at the rate of 25.08 per 1,000 per annum, against 26.28 per 1,000 in the preceding month, and 26.88 per 1,000 in the corresponding month of the past year, indicating, as compared with both the periods, a retrogression in the number of deaths recorded.

2. That the undermentioned districts furnished the highest proportions of deaths:—

Districts.	Ratio per mille.	Districts.	Ratio per mille.
Dinajpur	42.72	Nuddea	31.80
Rajshahye	41.88	Hughli	30.72
Maldah	39.96	Howrah	29.88
Jalpaiguri	39.84	Balasore	29.40
Bogra	38.28	Burdwan	29.28
Rungpore	35.52	Pubna	29.16
Khulna	35.16	Noakhali	28.32
24-Pergunnahs	34.32	Monghyr	27.96
Puri	33.72	Darjiling	27.72
Birbhum	33.36	Midnapore	26.76
Purneah	33.24	Murshidabad	26.76
Backerganj	32.52	Jessore	26.16
Mymensing	32.40		

3. That the mortality from the specific diseases mentioned in the appended table is shown below. The figures indicate that cholera prevailed with considerably less fatality during the month under notice as compared with the corresponding month of the preceding year, and that the fatal results from the rest of the diseases exhibited only fractional variations, excepting injury, which maintained the same death-rate:—

	Ratio per mille during—	
	January 1888.	January 1887.
Cholera	.84	3.00
Small-pox	.08	.04
Fever	19.08	18.96
Bowel-complaints	.84	.96
Injury	.12	.12
Other causes	3.96	3.60

4. That the following districts returned conspicuously high mortality from cholera and fever, and that no districts exhibited any noticeable high death-rate from the other diseases mentioned in the foregoing table, excepting in Puri, where 20.88 per 1,000 of the population died from the diseases coming under the head of "Other causes":—

Cholera.		Fever.	
	Ratio per mille.		Ratio per mille.
24-Pergunnahs	6.12	Dinajpur	40.44
Mymensing	5.16	Rajshahye	39.84
Howrah	3.36	Maldah	38.28
Midnapore	2.76	Jalpaiguri	37.56
Balasore	2.40	Rungpore	33.84
Chittagong	2.28	Bogra	33.36
Puri	2.16	Purneah	32.40
		Khulna	28.44
		Pubna	27.48
		Nuddea	27.36
		Birbhum	26.64
		Murshidabad	24.12
		Burdwan	24.00
		Mymensing	22.92
		Hughli	22.80
		Noakhali	22.80
		Jessore	22.44
		Monghyr	22.44
		Darjiling	21.72
		24-Pergunnahs	21.12

5. That in relation to Sex, Class and Age, the mortality of the month stood as follows:—

According to Sex.		According to Class.		According to Age.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	27.00	Christians	19.20	Under 1 year	169.08
Females	23.16	Hindus	23.04	1 and under 5 years	25.20
Ratio of male deaths to every 100 female deaths	114	Mahomedans	29.64	5 " " 10 "	10.92
		Budhists	22.82	10 " " 15 "	9.60
		Other classes	20.28	15 " " 20 "	15.12
				20 " " 30 "	17.40
				30 " " 40 "	19.32
				40 " " 50 "	25.92
				50 " " 60 "	38.64
				60 years and upwards	68.04

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major,

Offg. Sanitary Commissioner for Bengal.

The 9th April 1888.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of January 1888.

[illegible]

[illegible]

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major,
Offg. Sanitary Commissioner for Bengal.

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 9th April 1888

MEMORANDUM.

THE birth and death returns from the principal Municipalities in Bengal furnish the following results for the week ending 24th March 1888.

1. That births and deaths were registered at the rates, respectively, of 22·5 and 29·3 per 1,000 of population, as opposed to 21·3 and 29·7 per 1,000, respectively, during the preceding week ending 17th March, showing an improvement in the registration of births.

2. That the highest proportions of births and deaths were returned from the following Municipalities:—

Births.			Deaths.		
		Ratio per mille.			Ratio per mille.
Narainganj	...	57·9	Comillah	...	80·8
Beaulcah	...	49·9	Suburbs of Calcutta	...	58·7
Comillah	...	42·3	Utterpara	...	47·2
Arrah	...	41·9	Serampore	...	43·2
Bhagulpore	...	31·7	Kishnaghur	...	39·8
Monghyr	...	30·7	Gya	...	32·8
			Howrah	...	31·5
			Beaulcah	...	31·5
			Puri	...	31·5
			Burdwan	...	30·5

3. That in comparison with the results of the preceding week, there was a noticeable enhancement of mortality from cholera, and only small differences in the casualty-rates from the rest of the death causes, *vide* figures given below:—

						Ratio per mille during the weeks ending—	
						24th March 1888.	17th March 1888.
Cholera	...	...	...	...	...	9·3	8·2
Small-pox	...	...	...	...	...	·2	·1
Fever	...	...	...	...	...	3·8	9·9
Bowel-complaints	...	...	...	...	...	2·6	3·4
Injury	...	...	...	...	...	·4	·2
Other causes	...	...	...	...	...	7·0	7·8

4. That of the diseases abovenamed, cholera, fever and the maladies coming under the head of "other causes" proved conspicuously fatal in the following Municipalities, the other diseases exhibiting no special local severity:—

Cholera.			Fever.			Other causes.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Comillah	...	38·5	Comillah	...	26·9	Puri	...	14·7
Suburbs of Calcutta	...	30·7	Beaulcah	...	23·6	Gya	...	11·6
Serampore	...	23·6	Kishnaghur	...	22·7	Dacca	...	11·0
Howrah	...	20·0				Suburbs of Calcutta	...	10·3
Kishnaghur	...	15·1						
Puri	...	8·4						
Gya	...	2·7						

5. That the mortality in relation to *Sex*, *Class* and *Age*, stood as noted below:—

According to Sex.			According to Class.			According to Age.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	31·9	Christians	...	13·0	Under 1 year	...	198·9
Females	...	26·3	Hindus	...	28·9	1 and under 5 years	...	45·5
Ratio of male deaths to every 100 female deaths	137		Mahomedans	...	30·8	5 " 10 "	...	18·3
			Other classes	...	36·4	10 " 15 "	...	12·7
						15 " 20 "	...	17·2
						20 " 30 "	...	22·3
						30 " 40 "	...	22·8
						40 " 50 "	...	20·4
						50 " 60 "	...	36·0
						60 years and upwards	...	51·7

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major,

The 9th April 1888.

Offg. Sanitary Commissioner for Bengal.

POPULATION.			BIRTHS.			DISEASE.										SEX.								
NAMES OF MUNICIPALITIES.			NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.			DEATHS FROM—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths.				
Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Males.	Females.	Males.	Females.						
Burdwan	18,043	16,017	34,060	4	4	8	6.1	6.1	12.2	100	...	13	...	...	3.0	7.6	30.5	32.0	13	7	37.4	92.7	185	
Midnapore	16,937	16,653	33,590	3	4	7	4.0	6.2	10.8	75	1	1	3	...	...	1.5	7.7	15.5	22.5	8	2	24.0	6.3	400
Hughli and Chinsurah	19,179	19,939	39,118	13	7	20	17.4	9.4	26.9	185	2	13	2	...	...	2.7	2.7	25.5	20.5	7	12	10.0	31.9	28
Baranpore	13,859	15,937	29,796	4	5	9	7.8	9.8	17.7	80	12	4	1	...	...	7.8	9.8	43.2	25.5	13	9	40.9	36.7	144
Uttarpara	8,046	2,464	10,510	1	...	1	9.4	...	9.4	No female births.	...	2	2	...	...	...	...	47.2	9.4	3	2	51.2	42.2	150
Howrah	53,153	37,660	90,813	24	17	41	13.7	9.7	23.3	141	35	1	9	5	...	...	2.9	31.5	21.2	20	26	29.4	35.9	111
Bali	7,656	6,979	14,635	3	4	7	10.5	14.0	24.6	75	2	4	...	...	...	...	3.5	24.0	7.0	5	2	33.2	14.9	250
Suburbs of Calcutta	147,206	164,234	311,440	71	57	128	14.7	11.8	26.5	124	148	1	57	23	3	...	10.3	58.7	61.4	183	101	64.6	50.4	181
Kishinagar	12,303	14,811	27,114	9	5	14	17.0	9.4	26.5	180	8	12	...	...	...	...	1.9	39.8	21.6	10	11	39.3	40.2	90
Kanaghat	4,038	4,655	8,693	1	1	2	6.0	6.0	12.0	100	...	...	...	...	...	...	...	...	12.0	...	...	...	...	...
Santipore	13,708	15,979	29,687	6	3	9	10.5	5.2	15.8	200	...	8	...	...	...	...	1.7	15.8	7.0	5	4	19.0	13.0	125
Jessore	4,880	3,565	8,445	...	2	2	...	12.2	12.2	No male births.	...	...	...	...	...	...	...	...	12.2	...	...	...	...	...
Rampore Beaulah	10,764	9,025	19,789	7	12	19	18.4	31.5	49.9	...	...	9	1	...	...	...	5.2	31.5	26.3	8	4	38.6	23.0	200
Darjiling	5,629	2,947	8,576	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6.5	6.5	32.6	1	...	10.3	...
Decca	42,752	37,579	80,331	17	17	34	11.0	11.0	22.1	100	2	17	2	...	...	...	11.0	24.7	26.1	10	19	23.1	26.4	100
Narainganj	7,605	4,956	12,561	10	4	14	11.4	16.5	27.9	250	2	1	...	...	...	...	4.1	24.9	41.4	4	2	27.4	31.0	290
Chittagong	13,840	8,790	22,630	2	4	6	4.7	9.4	14.1	59	2	2	...	...	...	...	4.7	9.4	9.4	1	3	3.9	17.7	33
Comilla	8,163	5,848	13,966	4	7	11	13.4	26.9	42.3	57	10	7	1	...	...	...	23.9	3.8	84.7	9	12	57.4	110.6	75
Patna City	78,792	81,475	160,267	25	17	42	8.1	5.5	15.6	147	3	20	7	...	...	...	7.4	17.2	21.0	20	27	17.2	17.2	96
Gya	38,290	37,831	76,121	13	14	27	8.9	9.5	15.4	52	4	1	...	...	...	...	11.6	32.8	32.8	29	19	30.4	26.1	152
Arrah	20,960	21,603	42,563	15	9	23	21.3	20.3	21.0	105	...	4	2	...	...	...	1.8	13.2	4.8	6	6	14.9	11.6	120
Monsiehpore	23,634	19,638	42,742	15	9	23	18.2	9.7	25.3	187	...	1	...	...	...	...	6.7	15.8	4.9	5	5	11.2	21.2	62
Durrbanja	33,774	32,322	66,096	13	13	26	10.2	10.2	20.4	160	...	1	3	...	...	...	1.6	11.9	3.0	7	11	10.9	13.9	137
Chupra	26,014	27,205	53,219	6	8	14	5.8	2.9	8.7	200	...	1	2	1	1	...	1.9	5.8	3.9	5	1	10.0	1.0	500
Bhagalpore	29,640	27,453	57,093	21	14	35	19.0	12.7	31.7	150	...	14	3	...	...	...	7.2	27.6	27.1	13	12	22.8	25.4	108
Monehyr	26,156	29,868	56,024	19	13	32	17.5	13.5	15.7	125	...	5	2	...	...	...	5.4	14.5	22.6	9	7	15.6	15.4	128
Purvaah	8,463	15,016	23,479	2	4	6	6.9	13.9	26.8	50	...	4	...	...	...	...	...	13.9	20.5	2	2	12.3	15.9	100
Puri	13,347	11,637	24,984	4	...	4	8.4	...	8.4	No female births.	4	...	1	1	...	...	14.7	31.5	27.3	7	8	27.6	36.1	87
TOTAL	704,890	616,091	1,320,981	316	253	573	12.4	10.7	22.6	122	236	6	250	65	9	177	744	29.3	29.7	431	313	31.9	26.3	137

* A special census of the Europeans in the Darling Municipality was recently taken, as the census of this section of the community, taken in February 1901, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives, as estimated, as before, as it was not necessary to re-census them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans above alluded to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age classification.

DISTRICTS.		DEATHS AMONG—										RATIO PER 1,000 OF POPULATION PER ANNUM.										DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.										AGE.									
NAMES OF MUNICIPALITIES.		Christians.	Hindus.	Mahomedans.	Buddhists.	(Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	(Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																				
Burdwan	Burdwan	13	7	10	10	21	28.5	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Midnapore	Midnapore	10	9	10	10	21	29.1	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Hughli	Hughli and Chinsurah	10	9	10	10	21	16.4	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Seemapore	Seemapore	21	1	10	10	21	43.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Uttarpara	Uttarpara	45	9	10	10	21	43.8	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Ball	Ball	6	1	10	10	21	23.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Suburbs of Calcutta	Suburbs of Calcutta	134	88	10	10	21	67.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Kidderpore	Kidderpore	13	8	10	10	21	36.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Barrackpore	Barrackpore	9	...	10	10	21	22.6	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Seemapore	Seemapore	21	1	10	10	21	43.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Uttarpara	Uttarpara	45	9	10	10	21	43.8	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Ball	Ball	6	1	10	10	21	23.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Suburbs of Calcutta	Suburbs of Calcutta	134	88	10	10	21	67.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Kidderpore	Kidderpore	13	8	10	10	21	36.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Barrackpore	Barrackpore	9	...	10	10	21	22.6	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Seemapore	Seemapore	21	1	10	10	21	43.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Uttarpara	Uttarpara	45	9	10	10	21	43.8	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Ball	Ball	6	1	10	10	21	23.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Suburbs of Calcutta	Suburbs of Calcutta	134	88	10	10	21	67.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Kidderpore	Kidderpore	13	8	10	10	21	36.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Barrackpore	Barrackpore	9	...	10	10	21	22.6	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Seemapore	Seemapore	21	1	10	10	21	43.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Uttarpara	Uttarpara	45	9	10	10	21	43.8	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Ball	Ball	6	1	10	10	21	23.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Suburbs of Calcutta	Suburbs of Calcutta	134	88	10	10	21	67.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Kidderpore	Kidderpore	13	8	10	10	21	36.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Barrackpore	Barrackpore	9	...	10	10	21	22.6	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Seemapore	Seemapore	21	1	10	10	21	43.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Uttarpara	Uttarpara	45	9	10	10	21	43.8	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Howrah	Howrah	45	9	10	10	21	34.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Ball	Ball	6	1	10	10	21	23.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Suburbs of Calcutta	Suburbs of Calcutta	134	88	10	10	21	67.3	32.5	...	...	2	23.1	23.3	41.3	16.6	89.4	15.1	23.5	21.9	70.8		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-wards.																		
Kidderpore	Kidderpore	13	8	10	10	21	36.3	32.5	...	...	2	23.1	23.3	41.3	16.6</																																		

K. P. GUPTA. M.B., F.R.C.S., Surgeon-Major.

PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1887-88.

Areas leased for Irrigation up to end of February 1888.

DISTRICT.	CANAL.	Esti- mated full dis- charge.	Average discharge in month.	Discharge utilised.	Approx- imate area of land irrigated during the year up to the end of the month.	DETAILS OF AREAS LEASED.										RAINFALL, 1887-88.		RAINFALL, 1886-87.		REMARKS.
						Five years, all crops.	Five years, kharif.	ANNUAL LEASES.				Grand Total.	During month.	Up to end of month.	During month.	Up to end of month.				
								Kharif.	Rabi.	Sugar- cane.	Bhadai. weather.						Total.			
CENTRAL.	Taldunda, 1st Reach.	1,342	237	0.35	4,249	7,508	55	82	107	7,615	0.70	54.06	0.70	54.06	62.84					
	Taldunda, 2nd Reach.	506	75	0.36	17,377	22,343	37	8	17	22,360	0.70	50.85	0.70	50.85	53.25					
	Machgong	776	168	1.55	37,963	41,372	434	19	490	41,862	1.18	34.96	1.18	34.96	67.23					
	Kendrapara	372.82	27.75	24.22	591	765	9	...	9	774	3.35	14.06	3.35	14.06	56.51					
	Gobri	885	84.52	8.00	6,004	9,240	14	...	14	9,254	0.50	37.00	0.50	37.00	53.53					
	Pattamondri	608	...	...	14,669	14,665	...	...	...	14,665	...	...	...	...	...
	High Level, Range I.	727.16	...	...	430	710	34	...	34	744	...	...	...	...	...
	High Level, Range II.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	High Level, Range III.	727.16	...	...	5,982	7,722	8	92	100	7,822	1.19	52.04	1.19	52.04	61.61			
	Total	...	...	...	99,432	104,945	45	171	771	105,036	...	...	...	...	...
SOUTH- WESTERN.	Total of the corresponding period of last year.	...	...	...	...	80,878	56	148	2,073	89,551	...	...	...	...	...
	Midnapore	1,411	38	...	61,610	58,506	36	...	26	58,542	1.07	65.25	1.07	65.25	47.85	22 days discharging.				
	Parchikoorah	522	82	...	5,785	4,747	1,162	...	1,162	5,949	1.62	59.01	1.62	59.01	49.65	19 days discharging.				
	Tidal Reaches, Ranges I and II.	...	...	...	507	547	...	...	...	547	...	...	...	...	...
	Total	...	...	...	61,624	63,840	36	1,162	1,198	65,038	...	...	...	...	...
	Total of the corresponding period of last year.	...	...	...	...	68,506	...	...	...	68,506	...	...	...	...	...
	Shahabad	4,342	1,107	27	21,881	...	3,146	875	6,765	24,147	...	...	...	...	45.73	Less than last month by 72 acres transferred to five years' leases.	
	Patna	1,227	326	134	61,582	...	12,794	1,873	21,765	68,341	...	...	...	...	60.98	Less than last month by 308 acres transferred to five years' leases.	
	Patna and Gya.	1,406	427	234	14,615	...	14,471	417	16,563	53,551	...	...	...	...	74.16	Less than last month owing to five years' leases for 361 acres being cancelled, and that area being also excluded from the area irrigated.	
	SOUTH- EASTERN.	Total	318,237	43,261	8,801	224	73,358	251,112				
Total of the corresponding period of last year.		...	...	...	...	187,556	...	...	...	249,679	...	...	...	...	...
Grand Total		...	...	...	416,625	470,363	37,425	5,472	53,123	249,679	...	...	...	...	...
Grand Total of the correspond- ing period of last year		...	...	...	...	188,105	18,286	4,062	9,313	75,227	...	...	...	...	...
Grand Total		...	...	...	...	187,558	13,808	5,550	8,619	55,796	...	...	...	...	...
Grand Total		...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total		...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total		...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total		...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total		...	...	...	...	...	...	...	...	...	...	...	...	...	...

The 10th April 1888.

A. D. MCARTHUR, Major, R.E.,
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of February 1888.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
453	1. Grain ...	3,936	274	4,210	1,41,436	4,210	1,41,436	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
2	3. Oilseeds ...	5	.....	5	390	5	390	
37	4. Salt ...	.....	334	334	25,670	334	25,670	
8	5. Piece-goods ...	.....	19	19	8,250	19	8,250	
2	6. Metal ...	.....	4	4	350	4	350	
8	7. Building materials ...	4	7	11	425	11	425	
862	8. Miscellaneous ...	119	591	710	79,850	710	79,850	
32	9. Fuel ...	.....	488	488	13,323	488	13,323	
4 rafts	10. Timber ...	466 c. ft.	.....	466 c. ft.	741	466 c. ft.	741	
21 „	11. Bamboos ...	1,275 „	2,902 c. ft.	4,177 „	201	4,177 „	201	
1,399 & 25 rafts	12. Total ...	{ 4,064 & 1,741 c. ft.	{ 1,717 & 2,902 c. ft.	{ 5,781 & 4,643 c. ft.	{ 2,70,636	{ 5,781 & 4,643 c. ft.	{ 2,70,636	
1,036 & 13 rafts	13. Total of same month last year	{ 3,641 & 1,332 c. ft.	{ 429 & 140 c. ft.	{ 4,070 & 1,472 c. ft.	{ 1,57,822	{ 4,063 & 1,472 c. ft.	{ 1,57,622	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		674	725	1,399	Total tollage of month— 24+25+26 ...			6,212 15 0
15. Total number of boats plying passenger No.		26	52	78	Total tollage of same month last year ...			3,957 15 3
16. Total registered tonnage, cargo Tons		8,310	5,892	14,202	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		391	535	926				
18. Ton mileage ..		200,889	150,761	351,650				
19. Estimated value of cargo Rs.		1,43,628	1,26,066	2,69,694				
20. Number of passengers ...		1,144	1,629	2,773	1. Balance not recovered on the 1st of the month ...			Rs. A. P.
21. Rafts, bamboos c. ft.		1,275	2,902	4,177				
22. Do., bullahs „		466	.....	466	2. Tollage per month ...			5,401 0 0
23. Estimated value of rafts Rs.		178	764	942				
24. Tollage on boats „		3,158-11-6	2,251-13-0	5,410-8-6	3. Total ...			6,212 15 0
25. Compounded tollage on boats Rs.		379-12-0	394-12-0	774-8-0				
26. Tollage on rafts „		16-6-0	11-8-6	27-14-6	4. Amount paid into treasury during the month ...			11,613 15 0
27. Total tollage on boats per ton mile Per		.....	.....	2-95				
28. Total tollage on rafts per 100 cubic feet ...		.....	.....	0-9-7	5. Balance due at the end of the month ...			6,728 10 3
								4,885 5 3

Abstract for the month of February 1888 as compared with the corresponding month of the previous year.

	1887-88.		1886-87.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	6,212 15 0	48,090 2 0	3,957 15 3	23,775 2 9

CALCUTTA,
The 10th April 1888.A. D. McARTHUR, Major, R.E.,
Under-Secretary to the Government of Bengal.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing Quantities of Goods carried during the month of February 1888.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
852	1. Grain ...	2,098	4,693	6,791	2,91,496	6,791	2,91,496	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
66	3. Oilseeds ...	2	788	790	85,895	790	85,895	
348	4. Salt ...	2,369	.....	2,369	2,31,697	2,369	2,34,697	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
23	6. Metal ..	76	8	84	20,750	81	20,750	
34	7. Building materials	73	188	261	19,972	261	19,972	
668	8. Miscellaneous ...	1,301	2,978	4,279	7,17,549	4,279	7,17,549	
59	9. Fuel ...	451	120	571	5,195	571	5,195	
48 rafts	10. Timber ..	1,900 c. ft.	9,225 c. ft.	11,125 c. ft.	30,380	11,125 c. ft.	30,380	
10 „	11. Bamboos ...	.....	4,230 „	4,230 „	432	4,230 „	432	
2,050 & 58 rafts	12. Total ...	{ 6,370 & 1,900 c. ft.	{ 8,775 & 13,455 c. ft.	{ 15,145 & 15,355 c. ft.	{ 14,06,366	{ 15,145 & 15,355 c. ft.	{ 14,06,366	
2,187 & 83 rafts.	13. Total of same month last year	{ 7,578 & 268 c. ft.	{ 12,556 & 39,710 c. ft.	{ 20,134 & 39,978 c. ft.	{ 13,96,779	{ 20,134 & 39,978 c. ft.	{ 13,96,779	
		Up.	Down.	Total.				Rs. A. P.
4. Total number of boats ply- ing cargo No.		1,095	955	2,050	Total tollage of month— 24 + 25 + 26 ...			8,874 11 0
4A. Ditto empty boats, &c. ...		683	166	849	Total tollage of same month last year ...			9,622 1 9
5. Total number of boats ply- ing passenger No.		840	829	1,669	Memorandum of Tollage.			
5A. Empty boats ...		30	4	34				
6. Total registered tonnage, cargo Tons		22,175	17,767	39,942				
7. Total registered tonnage, passenger Tons		209	428	637				
8. Ton mileage		.....	.....	.....				Rs. A. P.
9. Estimated value of cargo Rs.		5,16,407	8,59,147	13,75,554				
10. Number of passengers ...		2,135	2,133	4,268	1. Balance not recovered on the 1st of the month ...			281 13 0
11. Rafts, bamboos c. ft.		.....	4,230	4,230	2. Tollage per month ...			8,874 11 0
12. Do., bullahs „		1,990	9,225	11,125	3. Total ...			9,156 8 0
13. Estimated value of rafts Rs.		3,225	27,587	30,812	4. Amount paid into Treasury during the month ...			8,946 0 6
14. Tollage on boats „		4,290-15-6	4,305-15-0	8,596-14-6	5. Balance due at the end of the month ...			210 7 6
15. Compounded tollage on boats Rs.		.....	.....	.....	
16. Tollage on rafts „		18-6-0	259-6-6	277-12-6				
17. * Total tollage on boats per ton-mile ...		.....	.....	.....
18. Ditto on rafts per 100 cubic feet ...		.....	.....	1-12-11				

* Boats in these rivers do not pay per mile.

Abstract for the month of February 1888, as compared with the corresponding month of the previous year.

	1887-88.		1886-87.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Large	8,874 11 0	1,90,400 4 4	9,622 1 9	1,93,014 8 3

CASEWORK

1045 April 1984

A. D. McARTHUR, Major, R.E.,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate return of traffic for the week ending Saturday, the 7th April 1888,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 7TH APRIL 1888.			WEEK ENDING SATURDAY, THE 9TH APRIL 1887.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	427	1,53,945	2,633	528	1,81,455	3,253
Jute ...	23	13,025	200	59	45,250	795
Firewood ...	121	58,587	797	202	1,13,950	1,439
Other articles ...	841	1,76,000	2,706	926	2,40,255	3,573
Total ...	1,415	4,01,557	6,336	1,715	5,80,910	9,060

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of February 1888, as compared with the same month of the previous year.

STAPLES.	1887.		1888.		1887.	1888.	Increase.	Decrease.
	Up.	Down.	Up.	Down.	Total.	Total.		
Coal	Tons. 756	Tons.	Tons. 291	Tons.	Tons. 756	Tons. 291	Tons.	Tons. 465
Cotton, raw	20	....	5	....	20	5	....	15
Cotton twist and yarn—								
1.—European	1	....	....	....	1	....	....	1
Cotton piece-goods—								
1.—European	44	1	56	....	45	56	11	....
2.—Indian	1	....	....	....	1	....	....	1
Dyes and tans—								
1.—Indigo ... ..	....	....	....	4	....	4	4	....
Jute—								
1.—Raw ... ..	....	14	....	....	14	....	....	14
2.—Gunny-bags and cloths	23	5	27	4	28	31	3	....
Grains—								
2.—Rice	35	794	15	1,478	827	1,493	666	....
4.—Gram ... ..	....	2	....	6	2	6	4	....
5.—Others	6	18	3	21	24	24	....	....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed ... ..	....	1	....	4	1	4	3	....
Leather, manufactured ... ..	....	4	....	1	4	9	5	....
Liquors—								
1.—Beer	1	....	1	....	1	1	....	....
2.—Wines	1	....	1	....	1	1	....	....
Metals—								
2.—Iron	10	....	1	....	10	1	....	9
4.—Others	2	5	6	4	7	9	1	....
Oils—								
1.—Castor	1	....	....	....	1	....	....	1
2.—Kerosine	5	....	4	....	5	4	....	1
3.—Others	1	....	7	....	1	7	6	....
Provisions—								
1.—Ghee	5	....	3	....	5	3	....	2
2.—Dried fruits and nuts	3	....	3	....	3	3	....	....
3.—Others	3	1	32	....	36	32	....	28
Railway plant and rolling-stock ... ..	....	10	41	....	10	41	31	....
Salt	13	1	25	....	14	25	11	....
Oilseeds—								
1.—Linseed ... ..	....	....	....	22	....	22	....	....
2.—Mustard and rape	32	....	285	....	32	285	253	....
5.—Others	84	....	92	....	84	92	8	....
Silk, raw—								
2.—Indian	74	25	27	27	99	54	....	45
Silk piece-goods—								
2.—Indian	1	3	....	5	4	5	1	....
Stone and lime	1	....	12	2	1	14	13	....
Sugar—								
1.—Drained	13	....	10	....	13	16	3	....
2.—Undrained	3	....	13	....	3	13	10	....
Tobacco	2	....	2	1	3	3	....	....
Paper and pasteboard	1	....	....	....	1	....	....	1
Umbrellas	2	....	1	....	2	1	....	1
A other articles of merchandise	31	14	29	14	45	103	58	....
Total	1,173	808	1,064	1,593	2,071	2,657	1,142	556

INCREASE.

Tons.

Cotton piece-goods 11
 There being no sufficient water in the river Bhagiratty, the steamer service between Calcutta and Joganj is stopped, and the merchants are bringing their goods by rail; hence the increase.
 Grains—(2) Rice 666
 The increase under this head is due to greater despatches from the intermediate stations owing to good crops and favourable demands this year.
 Provisions—(3) Others 28
 The increase under this head is due to potatoes being carried by rail this year.
 Railway plant and rolling-stock 31
 This increase is due to greater materials carried during the month.
 Salt 11
 The river communication being stopped, the merchants are bringing their goods by rail; hence the increase.
 Oilseeds—(1) Linseed 22
 The increase under this head is due to river communication being stopped; the merchants are bringing their goods by rail.
 (2) Mustard and rape 253
 Ditto ditto and to favourable demands.
 Stone and lime 13
 This increase is due to more materials carried this year for building purposes.
 Sugar—(2) Undrained 10
 This increase is due to favourable demand.

DECREASE.

Coal 465
 This decrease is due to increase in previous month.
 Cotton, raw 15
 This decrease is due to increase in previous month.
 Jute—(1) Raw 14
 This decrease is due to dull market.
 Silk, raw—(2) Indian 45
 This decrease is due to less import of tassar cocoons this year.

R. G. MOOKERJEE, Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 31st March 1888, on 1,513½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	243,560	2,84,558 8 0	26,06,824 10	6,23,956 7 7	22,597 4 6	9,31,112 4 1	65,982½	103,509½	169,582½
Or per mile of railway ...	...	187 15 9	...	412 3 1	11 11 10	615 1 8	...	...	...
For previous 12 weeks of half-year ...	3,206,831	37,83,633 0 0	3,35,83,324 0	70,77,591 9 9	2,72,342 10 4	1,20,33,528 4 1	797,075½	1,262,616½	2,059,591½
Total for 13 weeks ...	3,450,391	4,08,251 8 0	3,62,50,148 10	86,01,518 1 4	2,94,840 14 10	1,29,64,649 8 2	863,058	1,366,116½	2,229,174½
COMPARISON.									
Total for corresponding week of previous year ...	240,302	2,08,299 1 4	27,75,088 10	7,22,394 2 9	18,633 2 10	10,30,326 6 11	76,920	116,708	187,718
Per mile of railway corresponding week of previous year ...	...	136 6 1	...	475 0 2	12 4 3	684 3 6	...	...	...
Total to corresponding date of previous year ...	3,339,087	39,15,035 5 2	3,45,25,814 20	88,61,940 12 6	2,43,396 7 5	1,30,21,272 9 1	897,844	1,455,247	2,353,091

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 2ND APRIL 1887.			RECEIPTS FOR WEEK ENDING 31ST MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 2ND APRIL 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 31ST MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
1,519	10,39,326	684	1,519	9,31,112	615	1,515½	4,09,85,814	596	1,516½	4,63,23,308	687	.....	6,02,416

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 31st March 1888, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,986	7,697 2 0	40,527 20	2,752 8 0	53 0 0	10,493 3 0	1,808	496	2,304
Or per mile of railway ...	112	134 6 3	708 0	48 1 11	0 15 0	183 7 2	...	...	...
For previous 12 weeks of half-year ...	182,480*	1,01,154 15 0*	3,60,637 0†	26,110 6 0†	563 5 0‡	1,27,837 10 0	22,118	6,952	29,070
Total for 13 weeks ...	197,466	1,08,842 1 6	4,40,164 20	28,871 14 0	616 14 0	1,38,330 13 0	24,016	7,448	31,464
COMPARISON.									
Total for corresponding week of previous year ...	16,256½	8,292 14 7	69,658 0	4,294 4 0	63 8 9	13,650 11 4	1,677	1,739	3,416
Per mile of railway corresponding week of previous year ...	284	162 7 6	1,217 30	75 1 2	1 1 10	238 10 5	...	...	...
Total to corresponding date of previous year ...	195,271½	1,08,382 1 3	7,77,941 20	43,940 12 9	734 10 0	1,32,157 8 0	22,736	12,745	35,481

* Added No. of passengers 12,159 and Rs. 8,193 0 0
† Deducted Mds. 42 and added .. 63 0 0 } on account of differences between the approximate and audited returns to week ended 25th February 1888.
‡ Added .. 44 0 0

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 2ND APRIL 1887.			RECEIPTS FOR WEEK ENDING 31ST MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 2ND APRIL 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 31ST MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
57½	13,651	239	57½	10,493	183	57½	5,51,330	185	57½	5,09,685*	171	.....	61,644

* Added Rs. 607 on account of supplemental return to 31st December 1887.

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 31st March 1888, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,953	496 0 0	18,393 0	399 15 0	15 0 0	919 15 0	336½	157	493½
Or per mile of railway	41 5 4			33 5 3	1 4 0	75 14 7	.....	.....	.....
For previous 12 weeks of half-year	35,757*	5,978 7 0*	2,64,912 0†	5,567 4 0†	134 3 0‡	11,679 14 0	4,065	1,837	5,902
Total for 13 weeks	38,799	6,474 7 0	2,83,335 0	5,967 3 0	149 3 0	12,590 13 0	4,401½	2,014	6,415½
COMPARISON.									
Total for corresponding week of previous year	2,894	487 9 7	17,219 0	423 15 0	6 8 0	918 0 7	318	175	493
Per mile of railway corresponding week of previous year	40 10 2		.....	35 5 3	0 8 8	76 8 1	.....	.....	.....
Total to corresponding date of previous year	38,305½	6,450 1 4	2,64,195 20	6,521 4 0	161 3 9	13,072 9 1	4,468	2,012	6,480

* Added No. of passengers 1,416 and Rs. 185 0 0

† Ditto Mds. 5,054 and deducted " 1 4 0 on account of differences between the approximate and audited returns to week ended 25th February 1888.

‡ Ditto " 17 0 0

Approximate Statement of gross receipts of the Dildarnagar-Ghazipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 2ND APRIL 1887.			RECEIPTS FOR WEEK ENDING 31ST MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 2ND APRIL 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 31ST MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
12	918	77	12	911	76	12	47,951	77	12	48,119*	77	168	.....

* Added Rs 98 on account of difference between the approximate and audited returns to week ended 25th February 1888.

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 31st March 1888, on 74½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	4,384	3,302 7 0	87,360 20	3,464 12 0	124 8 0	6,891 11 0	697	1,323½	2,020½
Or per mile of railway	44 2 5		.....	46 5 1	1 10 8	92 2 2	.....	.....	.....
For previous 12 weeks of half-year	62,541*	46,447 0 0*	11,02,434 26†	51,621 9 0†	1,445 11 0	99,514 4 0‡	8,035½	19,085½	27,121
Total for 13 weeks	66,925	49,742 7 0	11,89,735 0	55,086 5 0	1,570 3 0	1,06,405 15 0	8,732½	20,411½	29,144½
COMPARISON.									
Total for corresponding week of previous year	5,487	3,883 5 6	1,01,608 20	4,603 0 0	135 12 3	8,622 1 9	768	1,393	2,161
Per mile of railway corresponding week of previous year	51 14 8		.....	61 8 7	1 13 1	115 4 4	.....	.....	.....
Total to corresponding date of previous year	75,131	57,091 7 5	13,98,102 10	65,299 5 6	1,388 15 0	1,23,779 11 11	9,908	16,570	26,478

* Added No. of passengers 584 and deducted Rs. 310 0 0

† Ditto Mds. 25,561-20 and " 395 0 0 on account of differences between the approximate and audited returns to week ended 25th February 1888.

‡ Deducted " 89 0 0

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 2ND APRIL 1887.			RECEIPTS FOR WEEK ENDING 31ST MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 2ND APRIL 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 31ST MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
74½	6,891	115	74½	6,893	92	74½	4,06,486	105	74½	4,41,117*	113	34,639	.....

* Added Rs. 104 on account of supplemental return to 31st December 1887.

Deducted Rs. 4 on account of difference between the approximate and audited returns to week ended 25th February 1888.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 31st March 1888, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	10,422	5,633 3 0	9,840 10	884 4 0	7 5 0	5,424 12 0	880	82	968
Or per mile of railway	.....	246 3 4	.....	17 4 4	0 5 3	243 12 11	.....	.....	.....
For previous 12 week of half-year	248,849*	86,126 13 0*	1,03,907 20†	3,633 9 0†	81 3 0‡	80,841 9 0	10,766	982	11,748
Total for 12 weeks	268,271	71,160 0 0	1,13,747 30	4,017 13 0	82 8 0	75,296 5 0	11,652	1,064	12,716
COMPARISON.									
Total for corresponding week of previous year	17,467	4,623 15 5	8,075 0	310 2 0	6 14 6	4,939 15 11	909	59	968
Per mile of railway corresponding week of previous year	.....	207 13 1	.....	13 15 0	0 4 3	222 0 4	.....	.....	.....
Total to corresponding date of previous year	262,971‡	68,124 1 9	1,14,648 10	3,762 10 0	84 4 9	71,971 0 0	12,410	636	13,046

* Added No. of passengers 5,629 and Rs. 1,792 0 0 }
 † Deducted Mds. 609 and added .. 86 0 0 } on account of differences between the approximate and audited returns to week ended 25th February 1888.
 ‡ Added .. 6 0 0 }

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 2ND APRIL 1887.			RECEIPTS FOR WEEK ENDING 31ST MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 2ND APRIL 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 31ST MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
22½	Rs. 4,940	Rs. 222	22½	Rs. 5,425	Rs. 244	22½	Rs. 2,47,263	Rs. 214	22½	Rs. 2,64,455*	Rs. 232	Rs. 21,192	.....

* Added Rs. 1,884 on account of difference between the approximate and audited returns to week ended 25th February 1888.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 24th March 1888, on 676 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-haul.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	122,253	64,037 0 0	4,46,454	63,873 0 0	11,084 0 0	1,38,994 0 0	23,000	23,600	46,600
Or per mile of railway	181	95 0 0	660 0	94 0 0	2 0 0*	191 0 0	.....	.....	.....
For previous 11 weeks of half-year	1,433,929	8,45,755 0 0	61,87,823 0	9,31,447 0 0	1,03,847 0 0	19,41,049 0 0	240,086	234,086	503,172
Total for 12 weeks	1,655,682	9,09,792 0 0	65,34,257 0	9,95,320 0 0	1,74,931 0 0	20,80,043 0 0	272,036	277,696	549,732
COMPARISON.									
Total for corresponding week of previous year	125,648	62,687 0 0	4,72,162 0	58,329 0 0	10,917 0 0	1,31,863 0 0	19,904	17,905	37,809
Per mile of railway corresponding period of previous year	207	103 0 0	779 0	96 0 0	2 0 0*	201 0 0	.....	.....	.....
Total to corresponding date of previous year	1,681,862	8,04,323 0 0	67,25,216 0	9,89,010 0 0	1,56,322 0 0	19,49,055 0 0	261,377	257,096	518,483

* Audited up to 18th February 1888.

FINANCIAL YEAR.

Approximate Statement of Gross Receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 26TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 26TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
606	Rs. 1,31,933	Rs. 218	676	Rs. 1,38,994	Rs. 200	606	Rs. 82,54,725	Rs. 267	649	Rs. 93,78,574*	Rs. 23	Rs. 11,23,849	.....

* Audited up to 18th February 1888.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 24th March 1888, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,894	9,658 0 0	62,736 0	5,232 0 0	38 0 0	14,928 0 0	3,660	1,833	5,493
Or per mile of railway ...	207	77 0 0	502 0	42 0 0	.....	119 0 0	.....	.....	.....
For previous 11 weeks of half-year ...	281,472	1,02,544 6 0	5,56,834 0	42,016 0 0	2,019 0 0	1,47,509 0 0*	38,531	19,185	57,716
Total for 12 weeks ...	307,366	1,12,202 0 0	6,19,570 0	47,248 0 0	2,987 0 0	1,62,137 0 0	42,191	21,018	63,209
COMPARISON.									
Total for corresponding week of previous year ...	24,540	9,125 0 0	57,119 0	3,632 0 0	31 0 0	12,788 0 0	3,517	1,703	5,220
Per mile of railway corresponding period of previous year ...	196	73 0 0	457 0	29 0 0	.....	102 0 0	.....	.....	.....
Total to corresponding date of previous year ...	308,108	1,06,023 0 0	4,21,073 0	27,764 0 0	601 0 0	1,34,323 0 0	43,493	20,040	63,533

* Audited up to week ending 18th February 1888.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 26TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 26TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
125	12,788	102	125	14,928	119	125	5,63,383	88	125	6,56,448*	103	93,065	.....

* Audited up to week ending 18th February 1888.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 24th March 1888, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,415	4,969 0 0	13,727 0	900 0 0	85 0 0	5,894 0 0	2,141	863	3,104
Or per mile of railway ...	156	57 0 0	160 0	10 0 0	1 0 0	68 0 0	.....	.....	.....
For previous 11 weeks of half-year ...	151,484	49,273 0 0	1,80,634 0	12,324 0 0	1,700 0 0	63,303 0 0	23,016	10,444	33,460
Total for 12 weeks ...	164,899	54,182 0 0	1,94,361 0	13,224 0 0	1,791 0 0	69,197 0 0	25,117	11,407	36,524
COMPARISON.									
Total for corresponding week of previous year ...	12,569	4,254 0 0	3,272 0	621 0 0	297 0 0	5,172 0 0	2,538	1,306	3,844
Per mile of railway corresponding period of previous year ...	146	50 0 0	38 0	7 0 0	3 0 0	60 0 0	.....	.....	.....
Total to corresponding date of previous year ...	154,570	53,046 0 0	2,29,614 0	21,911 0 0	2,650 0 0	78,507 0 0	27,139	14,558	41,697

* Audited up to week ending 18th February 1888.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 26TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 26TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
86	5,774	80	86	5,894	68	86	2,74,220	63	86	2,95,500*	67	21,349	.....

* Audited up to week ending 18th February 1888.

ASSAM-BEHAR STATE RAILWAY.

(PURNEAH SECTION.)

Approximate Return of Traffic for week ended 24th March 1888, on 39 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,542	780 0 0	30,615 0	2,640 0 0	15 0 0	3,435 0 0	546	540	1,086
Or per mile of railway ...	65	20 0 0	786 0	68 0 0	.....	88 0 0	.....	.....	.....
For previous 11 weeks of half-year ...	32,512	11,453 0 0	2,39,864 0	20,871 0 0	406 0 0	32,750 0 0*	6,006	6,900	12,906
Total for 12 weeks ...	35,054	12,233 0 0	2,70,479 0	23,511 0 0	421 0 0	35,105 0 0	6,552	6,552	13,104
COMPARISON.									
Total for corresponding week of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per mile of railway corresponding period of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total to corresponding date of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Audited up to week ending 18th February 1888.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Bihar State Railway.

RECEIPTS FOR WEEK ENDING 20TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 24TH MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 26TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 24TH MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.			Rs.						Rs.		Rs.	
.....	.....	.....	39	3,435	88	.....	.....	.....	39	1,23,293*	62	1,23,293	.....

* Audited up to week ending 18th February 1887.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 31st March 1888, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,092	1,151 3 0	9,732 10	623 5 0	7 8 0	1,781 0 0	509	254	763
Or per mile of railway ...	113	42 4 0	357 0	22 13 0	0 4 0	65 5 0	.....	.....	.....
For previous 12 weeks of half-year ...	39,770	14,975 13 0	2,28,022 30	11,885 11 0	336 8 0	27,198 0 0	6,108	6,031	12,139
Total for 13 weeks ...	42,862	16,127 0 0	2,37,755 0	12,509 0 0	344 0 0	28,979 0 0	6,617	6,285	12,902
COMPARISON.									
Total for corresponding week of previous year ...	2,819	1,077 13 10	18,073 30	1,098 4 0	17 11 0	2,191 13 10	509	254	763
Per mile of railway corresponding week of previous year ...	103	39 0 0	663 0	40 4 0	0 10 0	80 7 0	.....	.....	.....
Total to corresponding date of previous year ...	40,419	15,055 13 6	1,94,788 30	10,585 12 11	410 15 4	26,082 9 9	6,089	4,971	11,060

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 2ND APRIL 1887.			RECEIPTS FOR WEEK ENDING 31ST MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 2ND APRIL 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 31ST MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.			Rs.						Rs.		Rs.	
27½	2,192	80	27½	1,781	65	27½	28,564	63	27½	27,364*	60	2,192	.....

* Includes amount accounted for in the Supplementary traffic statement for week ending 31st December 1887.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 31st March 1888, on 259 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week on 259 miles open	43,177	15,318 9 3	1,66,801 10	17,019 0 0	2,841 0 6	35,178 15 9	5,802	6,571	12,373
Or per mile of railway	167	59 2 0	644 0	65 11 0	2 13 0	127 11 0*	.....	.....	.....
For previous 12 weeks of half-year	512,903	2,08,554 6 9	21,80,870 30	2,63,432 10 0	39,419 15 6	5,11,407 0 3	78,960	101,040	180,000
Total for 13 weeks	556,080	2,23,873 0 0	26,47,672 0	2,80,452 0 0	42,261 0 0	5,46,586 0 0	84,762	108,511	193,273
COMPARISON.									
Total for corresponding week of previous year on 246 miles open	42,734	15,206 4 7	1,91,338 0	20,718 8 0	2,774 15 11	39,699 12 6	5,045	6,832	12,777
Per mile of railway corresponding week of previous year	174	61 13 0	778 0	84 4 0	1 1 0	161 2 0*	.....	.....	.....
Total to corresponding date of previous year	492,118†	1,96,202 5 11	21,35,514 10	2,14,648 4 6	40,881 9 6	4,51,732 3 10	73,798	74,467	148,265

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 2ND APRIL 1887.			RECEIPTS FOR WEEK ENDING 31st MARCH 1888.			TOTAL RECEIPTS FROM 1st APRIL 1886 TO 2ND APRIL 1887.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 31st MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
246	38,700	157	259	35,179	136	246	16,20,471	127	252.57	18,51,250	141	2,30,779	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 24th March 1888	...	...	8,980
Corresponding week last year	...	...	7,662
Increase	...	...	1,318
Receipts from 1st January to 24th March 1888	...	...	93,516
From 1st January to 26th March 1887	...	...	74,183
Increase	...	...	19,333
			Miles.
Miles open, week ending 24th March 1888	...	...	51
Corresponding week last year	...	...	51
			Rs. A. P.
Receipts per mile open, week ending 24th March 1888	...	...	176 1 3
Corresponding week last year	...	...	150 3 9
Increase	...	...	25 13 6



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, APRIL 18, 1888.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
ABSTRACT of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67	769	Result of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 8th to 14th April 1888	795
Rainfall, Weather, and State and Prospects of the Crops	781	Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 1st March 1888	796
Meteorological Report of the Province of Bengal for the week ending Friday, the 13th of April 1888	786	Orissa Circle Taldandah Canal System for the month of February 1888	799
Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 13th of April 1888	788	Circular and Eastern Canals for the week ending 14th April 1888	810
Results of the Meteorological Observations taken at the Alipore Observatory from 8th to 14th April 1888	794	East Indian Railway	811
		Weekly Return of Traffic Receipts on Indian Railways	813

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

The Council met at the Council Chamber on Wednesday, the 4th April, 1888, at 11 A.M.

Present:

The HON. SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding*.

The HON. H. J. REYNOLDS, C.S.I.

The HON. C. P. L. MACAULAY, C.I.E.

The HON. T. T. ALLEN.

The HON. SIR HENRY HARRISON, K.T.

The HON. SIR ALFRED CROFT, K.C.I.E.

The HON. MOULVIE ABUL JUBBAR.

The HON. BABU KALI NATH MITTER.

The HON. DR. MAHENDRA LAL SIRCAR, C.I.E.

The HON. C. H. MOORE.

The HON. DR. GOOROO DASS BANERJEE.

The HON. H. PRATT.

NEW MEMBER.

The HON. MR. PRATT took his seat in Council.

CALCUTTA AND SUBURBAN MUNICIPALITIES AMALGAMATION BILL.

The HON. SIR HENRY HARRISON moved that the final Report of the Select Committee on the Bill to consolidate and amend the law relating to the municipal affairs of the Town and Suburbs of Calcutta be taken into consideration in order to the settlement of the clauses of the Bill.

The motion was put to the vote and carried.

The HON. SIR HENRY HARRISON also moved that the clauses of the Bill, as further amended, be considered for settlement in the form recommended by the Select Committee.

The motion was put to the vote and carried.

The HON. SIR HENRY HARRISON said:—We have already considered the first 36 sections of the Bill, and therefore I move that we begin with section 37. The first amendment on the list of business belongs to the chapter of definitions, and will naturally come on for discussion when that chapter is considered. As we have only to-day seen the exact line which the Hon. Member wishes to take, we shall be able to consider it at another meeting.

HIS HONOUR THE PRESIDENT said:—The Hon. Dr. Gooroo Dass Banerjee may explain to-day what his motion is, and we may postpone the discussion to another day.

The HON. DR. GOOROO DASS BANERJEE said:—The amendment of which I have given notice regarding the definition of "Calcutta" differs only in one respect from definition No. 7 in the Bill. It excludes from the Suburban area which the definition in the Bill proposes to include only a portion on the south side, namely the portion bounded on the north by the line of roads commencing from the east with the Tiljullah Road, and going along the Ballygunge Circular Road, the Puddopookur Road, the Pakoortollah Road, and the Chaoollputty Road, till it comes to a point where Tolly's Nullah turns south; and the portion excluded in my amendment has, for its western boundary, Tolly's Nullah. This is how it appears on the map. The line marked blue is the northern boundary of the portion I propose to exclude; and the other line, which is Tolly's Nullah, is the western boundary. The parts of the portion excluded, which are in the immediate vicinity of the northern and western boundaries, are, it is true, populous; but as we proceed further on towards the south from the northern boundary and towards the east from the western boundary, we come to places which are scarcely suburban, and which are of a rural character, and may safely be excluded from the operation of the Bill. I have no objection to postpone the discussion of the question now, but in that case I will ask permission to come back to any part of the Bill which may involve any question as to the extent of area involved, if such part is disposed of before the question of the definition is finally settled. I do not however think there is any important part of the Bill, which will render this necessary, now that we have disposed of the question of the number of wards.

The HON. DR. MAHENDRA LAL SIRCAR said:—I have to request that maps showing the proposed boundaries be circulated to the members; otherwise it will be impossible to come to any definite conclusion as to what the boundaries should be. This is what I have been insisting upon from the beginning, as I have not been able to procure a map which gives the correct boundaries in the plan.

HIS HONOUR THE PRESIDENT said:—I think that the map which the hon. mover of the amendment has will show very distinctly what he proposes. I do not wish to postpone the discussion till the end of the Bill, but I thought that if the hon. member explained to-day what he proposes, we may give ourselves till the next meeting to consider his proposals after

having seen his map, instead of merely trying to follow the printed description of the boundaries. I think we might be able to meet the hon. gentleman to a certain extent. The portion of country which he wishes to exclude is no doubt distinctly of a rural character, but I should have preferred if he took the Bhowanipore and Kallighat road as the western boundary, instead of the Tollygunge road, because the part of country between them is distinctly of an urban character, and very thickly populated. If we could come to an agreement on these lines, I shall be glad to try to meet him. We can discuss the matter at our next meeting after the hon. gentleman has seen on the map the boundaries which the hon. mover of the amendment proposes to prescribe.

The further discussion of the amendment was postponed on this understanding.

The HON. BABU KALI NATH MITTER moved that (c), (d), (e), (f), (g), (h), (i), (j) and (k) of clause 5 and clause (6) of section 37 be omitted. He said:—When this Bill was before the Council on the last occasion, the section which is now No. 37 was then section 30, and in the latter certain matters only were included as the duties of the Corporation. Take for instance the naming of streets and the numbering of premises. If general default is made by the Commissioners in the numbering of streets, they are to be superseded. I do not think it was ever intended that such should be the case, nor is it very likely to happen. The construction and maintenance of public latrines, urinals, and other public conveniences. These matters depend very much upon the funds at the disposal of the Commissioners as to the extent to which they may be in a position to carry out such works; but if these are put in the section as duties to be performed by the Commissioners, they would have to be performed irrespective of the question whether funds are available or not. The section which has already been passed (section 36) declares the purposes to which the Municipal Fund may be applied, and I think that should be sufficient, leaving it to the discretion of the Commissioners to carry out those objects as far as might be practicable. Then, with regard to the watering and lighting of streets. The whole of the town at the present moment has not been lighted. It would depend very much on the state of the funds as to what parts can be lighted and what cannot be lighted; and therefore it is essentially necessary to leave it as a matter of discretion as at present and not to convert it into a duty. Then, again, as regards the abatement of nuisances. There is a section of the Bill (section 389) which shows that the Commissioners have to be satisfied that there is real necessity for taking up a case before they can be called upon to take it up. But if it is to be a duty, then as soon as a complaint is made they will have to take it up as a duty; there is no discretion left. Under these circumstances, I move that the clauses which I have mentioned be omitted from section 37. I wish it to be distinctly understood that I do not for a moment mean that by the exclusion of these clauses, I intend that the Commissioners are not to give these matters their very best consideration; but having regard to the large area to be included in the town it is very difficult to foresee what the Commissioners will be able to do.

The HON. SIR HENRY HARRISON said:—I wish to ask whether it will be possible to consider amendments Nos. (2) to (5) together, voting upon them of course separately, because the Hon. Member who has just moved amendment No. (2) has admitted that the objection does not lie to the clause itself, but only when it is read with section 38. It seems to me that substantially the question involved by amendments Nos. (2) to (5) is an alteration in the framework of section 37 as read with section 38. I think it would shorten and simplify our procedure if these amendments are all considered together. Suppose section 38 were altered. Suppose we omit the clauses of section 37 mentioned in amendment No. (2), and the Hon. Member then suggests a very different control section, the position of Hon. Members will be a very difficult one. It will therefore be far more convenient if the whole of these amendments are treated as involving one large question.

The HON. BABU KALI NATH MITTER said:—I agree with my hon. colleague that it will be very desirable to discuss all these amendments together. If

I succeed in having section 38 substantially altered, the objection to section 37 will be very much minimised. I have therefore not the slightest objection to the course proposed.

HIS HONOUR THE PRESIDENT on that understanding asked the Hon. Babu Kali Nath Mitter to proceed with his next amendment No. (5).

THE HON. BABU KALI NATH MITTER said:—My objection to section 38 of the Bill is this, that when the Act of 1876 was under consideration a similar objection was taken by various public bodies, and thereupon this and some other sections of the Bill were referred back to the Select Committee for further consideration. After a good deal of discussion, after hearing delegates and counsel on behalf of several public bodies, the section which stands in the Act was adopted; and the then Lieutenant-Governor expressed his fullest concurrence in the alteration made by the Select Committee. When the present Bill was laid before the Select Committee in the first instance no change was proposed in the section. It was only at the very last moment that the Hon. Mr. Macaulay thought fit to produce the present section 38 in lieu of the section in Act IV of 1876. The reason assigned by him was, that the provision as it stands in the Act is cumbersome and unworkable. As far as it is cumbersome and unworkable, no doubt it will be necessary to remodel it; but I do not think that because it is cumbersome and unworkable, therefore the law should be materially altered so as to give uncontrolled power in the hands of the Local Government. The powers under the present law are these. In the first place the power is to be exercised only in a few cases, that is in cases where adequate provision is not made for the conservancy and cleaning of the town so as not to secure its healthiness. In the second place if the Commissioners failed to take steps to improve the bustees of Calcutta, and thus to secure the healthiness of the town, then the law authorises the Local Government to step in. But before the Commissioners can be superseded in any way, the present law provides as the most important matter that there should be an independent enquiry, and unless in the course of that enquiry it appears that default has been made within the terms of the law, the Commissioners cannot in any way be superseded. This safeguard does not appear in section 38 of the present Bill. I was told in the Select Committee that due enquiry would mean after hearing the Commissioners. If that is so, why should it not be stated in the law that, before this power is exercised, the Commissioners shall be heard? Again it was said that the wording of the present law makes the provision unworkable. I have, therefore, thought fit to alter the wording of the section, and I am confident that the section, as I have framed it, cannot be said to be unworkable. If there is complaint made, the Commissioners are to be heard, and if the Government is then satisfied that default has been made, there is to be a Commission appointed. The Sanitary Commissioner or any one acting for him is to be one of the arbitrators; the second arbitrator is to be appointed by the Commissioners, and the third by the Local Government; and these three arbitrators are, within a time to be fixed by the Local Government, to find whether any such default as has been complained of has been made. If they find that default has been made, then they are to state what, in their opinion, should be further required to be done in regard to such matter. After the Commission makes its report, the Local Government is entitled to call upon the Commissioners to carry out what the members of the Commission have awarded; and if they fail to do so, the Chairman of the Corporation is to supersede the Commissioners. That is how the section I have framed will practically work; it will substantially leave the law in the same position as at present. No outsider is to supersede the Commissioners; the supersession will be by the Chairman under the special authority of the Local Government, but this supersession would not take place until after a proper inquiry. It is said that such an enquiry will take time. No doubt it will take some time, but time should not be objected to in a matter of this kind. It is entirely in the hands of the Local Government to fix the time within which the report is to be submitted by the Commission. If the complaint is in respect of a matter of very urgent importance, which can be enquired into within two or three days, the Local Government might fix a very short time. If, on the other hand, it is a matter of a complicated nature in which there is no great urgency, the Local Government may fix a longer time for

the members of the Commission to make enquiry and submit its report. Therefore, as far as the objection goes that the procedure is cumbrous and unworkable, I submit that the section framed by me will not be open to that objection. Then, again, I have limited the enquiry to one of the duties enumerated in clauses (3) and (4) and (a) and (b) of clause (5). These are the most important matters. Clause (3) refers to completing and extending the drainage works throughout Calcutta, and the opening out and improving of bustees, and to the expenditure annually of not less than two lakhs of rupees for these purposes. Clause (4) refers to the maintaining of a water-supply; and (a) and (b) of clause (5) to the cleaning and conservancy of Calcutta, and the maintenance and cleaning of drains and drainage works. These are the most important duties which the Commissioners have to perform. They have immediate reference to the health of the town, and in respect of which the Government should have a power of control. As regards clauses (1) and (2), they are so important and so essentially a part and parcel of the working of the Municipal Act that I have not thought it necessary to include them in section 38, because the payment of interest and the establishment of a sinking fund are the first duties of the Corporation. If the Commissioners can be trusted with the administration of the municipal affairs of the town, they should be trusted to make suitable provision for these purposes. I cannot conceive it possible that under any circumstances these duties would not be performed, but if it is thought desirable that they should be included, though the section will then need slight modification, I shall have no objection to offer. I have excluded them simply because they are primary duties, and it is not possible to conceive that under any circumstances these duties would be neglected.

Then as regards other matters, I submit that they are matters of detail which may be left to the Commissioners, subject to the control of public criticism and to the influence which the Press can bring to bear on the Commissioners. I put it to the Council and to Your Honor, whether or not it would be utterly absurd to supersede the Commissioner, because two or three streets had not been named. That, however, is how the section stands. While it is desirable that the Local Government should have this power in matters of vast importance, I think it is desirable that such power should be safeguarded, and the safeguard should be an enquiry by a Commission. The members of the Select Committee, in dealing with this subject, say in the first page of their report, chapter II:—

“Section 37 enumerates the duties of the Corporation. This section has been enlarged to include all that should be included as the duties of the Commissioners, and section 38 confers ample powers on the Local Government to compel the Corporation to discharge any of these duties should it neglect to do so. We could not recommend the re-enactment of the cumbrous and unworkable sections of the former law. On the other hand, the discretion and forbearance of the Government constitute the best guarantee which can be given to the Corporation against a hasty and injudicious use of this power. We have introduced an appeal as of right to the Government of India.”

Though I look upon this right of appeal as a concession to my objections, yet I am not satisfied with the section as it has been framed by the Select Committee; and I think it is necessary that there should be material alterations made in it to show the public that since the passing of the Act in 1876 nothing has happened which would justify an alteration of the law on the subject. Within ten or eleven years it was only once that the Local Government thought fit to have recourse to this section. I do not wish, for obvious reasons, to enter into that discussion further than to show that all the recommendations of the Commission were altogether accepted by the Commissioners, and they gave effect to them so far as the Government requested them to do so, not putting their request under the provisions of the law, but appealing to the good sense of the Commissioners. I believe the hon. member in charge of the Bill will bear me out in saying that every one of those recommendations has been attended to. Suppose the law then stood as it is now proposed to make it, what would have been the consequence? I think the consequence would have been the supersession of the Commissioners, and then a grievous mistake would have been committed. As regards matters of vast importance, of course the Local Government should have a power of control; but while conceding this control there should be the safeguard of an independent enquiry. In 1876, and also upon the present occasion, it has been said that this power exists in England and in Bombay. As regards England, the cases are totally different. There the Government does

not appoint a single Town Councillor, but all of them are elected by the rate-payers, and the Chairman is elected by themselves; so that in every sense local bodies there are wholly independent of Government control, and moreover all large municipalities, as far as I have been able to ascertain, are represented in Parliament, and that of itself is a safeguard against the capricious action of Government. I appeal to the Council and to Your Honour to say whether it is likely the town will suffer in the least by adopting the section I propose. If the town will not suffer, I think it will be an act of grace towards the Commissioners and the rate-payers not to alter the law so materially as is proposed. On this subject both the British Indian Association and the Indian Association have made representations. The British Indian Association in their letter says—

“The controlling power of the Government is proposed to be made more summary than at present. The exercise of such summary power would not only be inexpedient in the face of the very reasonable provision at present existing, but unjust to the Commissioners, who ought to be heard in their defence. The Local Government may, after considering such explanations as the Commissioners may offer, appoint a Commission, as in section 28 of the present Act. Such a Commission, if properly constituted, would form a proper bench to judge of the issues between the persons complaining of default by the Commissioners on the one hand, and the Commissioners on the other. After our experience of the last Commission, it is necessary that the Government should specify in detail the work or works neglected, and the exact amount of work to be done. The danger of a special officer, spending money without limit on any particular work, may so cripple the municipality as to lead to the neglect of more pressing work in other directions. The resources are not unlimited, and the expenditure should be regulated according to income.”

And the representation of the Indian Association have also made similar observation. After comparing the provisions of the existing law with the section in the Bill, they say—

“It will be seen at once that the powers of control claimed under the new Bill are far more summary in their operation than what is provided for in the existing law. Under the present law, the Government cannot take any action except as the result of a public enquiry. Under the Bill no public enquiry need be made. If the Government is satisfied that default has been made—it does not matter by what process—the Municipality may at once be coerced to carry out the orders of Government. But the fact remains that the powers of control reserved to the Government by the existing law have been found by actual experience to be amply sufficient for all purposes.”

With these observations I leave the matter in the hands of the Council. I think this is a matter which demands our earnest attention, and I hope that the Council will accept the amendment proposed by me.

The HON. DR. GOOROO DAS BANERJEE said :—I beg to move that in section 38, line 5, after the word “duties” the words “relating to public health” be inserted. I also move that in line 7 of the same section, after the word “enquiry” the words “by a Commission consisting of three persons, two of whom shall be appointed by the Local Government, and one by the Commissioners in meeting” be inserted. The object of these amendments is of a nature similar to that which my hon. colleague who has just sat down has in view in proposing his amendments. The only difference between his amendment and mine consists in this, that whereas he would revert to the old law with very slight modifications, my amendments take a middle course between the old law and the provision contained in the Bill. I fully admit the necessity of the Government having control, but I submit that this control, in the case of an important public body like the Calcutta Municipal Corporation, should be limited to extreme cases—to the cases of serious neglect of duty by the Corporation in relation to matters of public health. It is then only that the grave importance of the subject would justify the action of the Government. In other matters of minor importance, the Municipal Corporation could be safely trusted. But if the provisions of the law remain as they are in the Bill, the result will be that the Commissioners would be liable to be superseded on account of default in the discharge of every minor duty, such as the naming or the watering of streets. This would no doubt very prejudicially affect the independence of the Corporation, a result which is scarcely desirable. Then it should be borne in mind that the new Corporation, with their limited funds, and with the comprehensive and detailed scheme of duties laid down in section 37 of the Bill, would be constantly exposed to the risk of being proceeded against under this section unless its operation is limited

in the way I suggest; and this danger will be all the greater when it is further borne in mind that the amalgamation of the large suburban area with the town will increase their responsibilities a great deal without providing them with adequate funds to discharge those responsibilities. Therefore, I submit, that the first of the two amendments I propose ought to be accepted by the Council.

Then as regards the second amendment, it is quite true, as the Select Committee observe in their report, that the discretion and forbearance of the Government constitute the best guarantee that can be afforded against any unnecessary or arbitrary exercise of the power; but, I submit that it is equally true, in the case of an important public body like the Calcutta Corporation, that their own good sense and the control of public opinion will be sufficient in all ordinary cases to induce them to perform their duties. And if it is thought necessary to guard against neglect of duty by the Corporation in important cases by legislative enactment, I submit it is at least desirable, if not necessary, to make some provision in the same law against any hasty or injudicious exercise of the power of control in any case. And this necessity will appear most clearly when it is remembered that the Corporation, with their limited funds and almost unlimited responsibility, will always have to choose between two evils. They will always be obliged to neglect, for a time at least, duties of a less urgent nature in order to discharge others of a more pressing character. With regard to a public body so circumstanced the duty of judging of their acts and omissions must necessarily be of a most difficult and delicate nature, and therefore I submit it is due as well to the Corporation as to the controlling authority itself to lay down rules and to make careful provision against any unfair or injudicious interference being made in any possible case. There are many cases in which the question involved will after all be a mere matter of difference of opinion; the Commissioners after exercising their judgment most carefully and anxiously may think one class of duties more important than another, whilst the Local Government may be inclined to take a different view. And the possibility of the Commissioners being able to discharge both duties together will depend on the state of their funds. An enquiry into these points can hardly be fairly conducted unless the Commissioners are represented by some one in the tribunal which is to judge. I therefore submit that the very least which ought to be done in this direction will be to have an enquiry by a Commission constituted as my amendment indicates. I earnestly hope that if the Council has any difficulty in accepting the larger proposition contained in the amendment of my hon. friend Babu Kali Nath Mitter, it, at any rate, will find no difficulty in accepting the smaller measure proposed in my amendment.

The Hon. SIR HENRY HARRISON said—Although I am quite prepared to admit that the question is not without difficulties, I can hardly recommend the Council to accept the amendments moved by the Hon. Member on my left (Babu Kali Nath Mitter). As regards the fact that section 37 in its earlier form did not contain the clauses to which the Hon. Member has referred, I may mention that in the first instance the Government of India drew attention to the non-inclusion in the section of such provisions. In a letter, received from the Government of India last year, commenting on the draft Bill, they asked us to look into the corresponding sections in the Acts relating to Municipalities in other parts of India, and it is not possible to deny that the maintaining of a system of registration of births and deaths for instance, or the naming of streets and the numbering of houses are duties of the Municipality. Then, if it is the duty of the Municipality to do these things, ought they to be omitted from the section of the Bill, over the operation of which a power of control is given to the Government? I admit that for all practical purposes it will perhaps be sufficient if the power of control is confined to matters affecting the public health, because it is essentially in such matters that there will be a probability of difference of opinion. But as a question of principle, why should the other clauses of the section be excluded? The probability is that there will be no likelihood of default in such matters. But suppose the Commissioners were to commit default in respect of such matters. Suppose the Commissioners discontinued the maintenance of a system of registration of births and deaths. There

are statistics of births and deaths extending over a series of years of extreme value to which constant reference is needed. Would it not then be necessary that the Government should have power to say to the Commissioners, you shall not discontinue those registers? Take another case. Take the naming of streets and the numbering of houses. Conceive the total confusion which would result from total neglect of this duty. Consider the total prostration of the Postal Department and of all inter-communication in Calcutta. Is there one single duty of the Commissioners regarding the performance of which it would be more incumbent on the Government to interfere than that supposing it neglected? As a question of principle I cannot see why we should take away the control of the Government over duties of this kind which, supposing they are not performed, will lead to disastrous results, simply because we think there will be no necessity for such control. The chances are a hundred to one that the Commissioners would not commit default in such matters; if so, no harm would be done, and the section would remain a dead letter. But suppose the Commissioners did commit general default, then there is no single matter amongst the duties of the Corporation control over which would more meet with the approval of the entire population, than some of the matters which I have instanced. I think the essence of the objection is that instead of the decision in such matters being vested in the Government it should be vested in a tribunal consisting of three persons, two of whom should be appointed by the Local Government and one by the Commissioners in meeting. That is a legacy from the Act of 1876, and the Hon. Babu Kali Nath Mitter correctly described what happened then. The section was adopted as a compromise by way of concession to representations made by various public bodies, because they considered that the general power of control proposed to be given would prove fatal to the independence of the Commissioners. But I would ask the Council to consider whether that is not a fundamentally erroneous principle. It appears to me to be an erroneous principle incautiously and easily yielded by Sir Richard Temple to satisfy the objections raised by several public bodies. And now that the law is being amended, I am bound to say that in my opinion the Council will do wrong, unless it lays down most distinctly that the authority in all such matters rests with the Government. There is a great deal of difference between the Government interfering in matters concerning the duties of a Municipality and in matters affecting private rights, in which case the decision of a perfectly independent tribunal is necessary. There is a wide difference between such rights and rights and duties which are really part of the work of Government. The Municipality is a body vested with some of the authority of the Government of the country, and it should be properly regarded as a body which is subordinate to the Government of the country, and so it is regarded in every country in the world. In Paris, in Berlin, in London, the Government of the country is vested with the supreme authority and the supreme responsibility of disposing of public duties, but as it cannot attend to everything itself, it has its subordinate officers, and, where it is possible, local bodies are constituted for local purposes. But who in the long run is responsible to the individuals of each community against gross abuse of authority, but the Government of the country. Therefore, I submit, that as a matter of Government we must have a hierarchy of institutions, and subordinate authorities must be placed under superior authority. The Government ought to make up its mind with the utmost care, prudence, discretion, and forbearance; but when the Government has made up its mind that something is wrong, it is erroneous in principle to say that it should not have power then and there to act, but that authority should be given to some other tribunal to judge between it and the subordinate authority. That is the principle on which this section is based. Therefore on the whole I submit that the proper principle is that the responsible authority must be given the power after it has given full consideration to the matter and has made up its mind. And that being so, may we not fairly appeal to the experience of all other parts of the world? Can the Hon. Member point to any provision such as exists in the Act of 1876? In France, there can be no question that Municipalities are absolutely and entirely under the control of the Government: the President of the Republic has

complete power over municipalities. In Paris, it is entirely under the Prefect of the Seine and the Prefect of Police. And a similar rule prevails everywhere. In Bombay, a precisely parallel case, where a portion of the members of the Corporation are appointed by the Government, we have the same principle; and in Madras it is the same. In India, that appears to me to be the legitimate and proper position which the Government must exercise. On the other hand, it seems desirable that that principle once safeguarded, the Government should make every concession it can, consistently with the working of the principle, to the position of the Corporation. On that ground we are much indebted to Your Honor that the Corporation should, under such circumstances, have been given a right of appeal. That right can no doubt be granted without any serious incumbrance to the exercise of the authority. It is in itself a very moderate safeguard. The Hon. Member asked why it should not be incumbent on the Government in the first instance to call for an explanation from the Commissioners. But by a concession of the kind offered by Your Honor, you practically concede what is asked. I know that there is a strong feeling in many quarters that in doing that the Government has made an unnecessary concession, and it is perfectly possible that if that view had been pressed on the Council, a majority might have been found to agree with it; and that makes us all the more indebted to you for making the concession, and it is the utmost concession which Your Honor can make consistently with principle, Your Honor being the responsible authority.

One more argument before I sit down. It is but fair to point out that a very great change has taken place, or, I should rather say, the experience of past years has made a great change in the aspect which this question now presents. If I read to the Council from a speech delivered by the late Hon. Kristo Das Pal when he objected to a similar provision which was first proposed, it will be apparent that what he made the primary objection to the principle no longer exists. He said—

“This was the last straw which broke the camel's back. If this section passed, he would rather set his face against an elected system than vote for it in this form. The section gave power to the Local Government to modify or cancel rates which might be fixed by the Municipal Commissioners after full and mature deliberation. So long as this section should remain a part of the statute book, he did not know whether any independent gentlemen, with any feeling of self-respect, would care or would be willing to work for an object which would be likely to be set at nought at the pleasure of the Government. The other day the Justices, after days of labour and discussion came to the decision, that a 7½ per cent house-rate would be sufficient for the year. The Chairman was not of course satisfied with that decision, and, as under the present law, the Government had no power to alter the rates, the Chairman was bound to accept the decision of the Justices so long as they saw no reason to alter it. But if the Government had power under the existing law in the way proposed in this section, then the Chairman might have at once gone up to Government, and the rate passed might have been cancelled. It might be urged that Government would not unnecessarily exercise that power. But at the same time Babu Kristo Das Pal submitted, with due deference to the Government that it would be chiefly inspired or guided by the Chairman in a matter like this. Government could not be expected to be master of those details which the Chairman, it was thought, ought to be; and in such a matter the Government would necessarily be guided by the Chairman. With every deference to his hon. friend who now so ably filled the office of Chairman to the Justices, he submitted that the tendency of the executive had always been to expend money, and that tendency it had been the business of the working Justices to control.

“That, he submitted, was a healthy policy. He thought such a state of things was good for the town. Good, because the Chairman, as the executive officer, might be anxious to undertake works of improvement which might be desirable to carry out, and good, because there was an independent body of working Justices to temper the excessive zeal of the Chairman, and their conduct in this way helped to preserve the much-needed equilibrium. But once that power was destroyed or lost, it would come to this, that the Chairman, however reasonably he might be overruled by the Commissioners, would have only to appeal to the Government, and, as the representative of the Government, he would in nine cases out of ten be likely to be supported by it. Such being the tendency of this section, he was sorry he could not support it, and he was compelled to say that, if it were carried, it would defeat the very object for which His Honor so laudably sought.”

The whole gist of his objection was that the Chairman would be constantly rushing up to the Government to appeal against the Commissioners. Has not experience shown that that is quite contrary to the spirit in which the Act has worked? Does not the Chairman recognize that his interest and the interest of the Corporation are the same; that his success is their success and that

their success is his success? And so long as that is the spirit which guides the Corporation, I do not think there is any reasonable fear of the Chairman going up to Government; of any constant appeal to Government from within the Corporation. That was the only way in which the late Hon. Kristo Das Pal thought the principle of the section originally proposed was unwise; but as far as the outside public was concerned, he admitted that if, say, 500 rate-payers petitioned the Government, the section should be brought into operation.

For all these reasons, I think it will be fittest for the Council not to accept the amendment, and to be satisfied that the Corporation will always have a right of appeal to the Government of India.

The HON. BABU KALI NATH MITTER in reply said:—I have listened very attentively to what has fallen from the hon. member in charge of the Bill, but I fail to see how he has attempted to meet the objections I have raised to the section. He has made general statements which an advocate will always make when he has a bad case to deal with, but he has not attempted to meet the objections which I raised. All throughout he has made general statements. As to the quotation from the speech of the late Hon. Kristo Das Pal, I submit that everything he then said applies in every possible way to the present time. Suppose this section is not altered, but is passed as it has been framed, will the relations between the Chairman and the Corporation be of the same character as they have been in the past? I think if the law was different, the Chairman would on many occasions have gone up to the Government; the Act has worked well, because the law insisted upon an enquiry. We have no experience of what would have happened if the law had been different; our past experience, therefore, does not help us. The late Hon. Kristo Das Pal put it on that ground alone. I did not put it on that ground. I never referred to the possibility of the Chairman being the person who would be the complainant: that is a matter wholly immaterial to my argument. We are asked why the Government should not interfere if the Commissioners omitted to register births and deaths or to name streets and number premises. If that happened, the interference of Government should be very different. It should not be supersession by the appointment of a person to register births and deaths or to name streets or number premises, but the interference would take the form of establishing a totally different system of Municipal Government. If it is possible to conceive that the Commissioners should fail to provide for the performance of these obvious duties, then the course would be not to supersede the Commissioners in the manner indicated in the Bill, but to supersede them completely, and to have another system for the administration of the affairs of the town. To my mind the two things are as totally distinct as it is possible to conceive, but I do not think it is possible any such thing can happen. I am told that if it is not possible to happen, what objection is there? I object to this provision on principle; that it is a provision which should not be left without reasonable safeguards. Then I am referred to the words "general default." The expression "general default" has not been defined in the Bill, and I do not know what it means; whether the omission to name two or three streets or a hundred streets would be considered "general default." It would be very difficult to say how a court of law would interpret this "expression," or how the Local Government would interpret it. Then my hon. friend has thought fit to say that on the last occasion when this question was considered it was decided on an erroneous principle. I have listened very attentively to find where the principle lies, but I have failed to find any principle involved in it. My hon. friend says that if such default is committed, who is the person who should take action but the Local Government? My answer is that it will be impossible for the Local Government, constituted as it is, to have any opinion on the subject, unless it causes a proper enquiry to be made by an independent person or tribunal. When a memorial signed by 500 or 1,000 persons is submitted to the Government, it is *prima facie* evidence that the complaint is a just one, and no reasonable man can object to the exercise of this power in such a case; but if the complaint is to be enquired into in the mode indicated in the law, and if, as the result of that enquiry, the Local Government is to exercise the power, then I do not see where the principle suffers. It is not to be an enquiry made by a Secretary to Government or some

other Government official; but by independent persons, assisted by a nominee of the Commissioners, so that the nominee of the Commissioners will be able to place before his colleagues the fullest information on which it would be possible for the Commissioners to come to a finding. Therefore I humbly submit that there is no question of principle involved in the section. My hon. friend has asked me to show whether there is in England or elsewhere, or in this country, any such provision of law as that contained in Act IV of 1876 or in my amendment. I say there is not, and it is because Calcutta is differently circumstanced from other towns that it was thought fit to make this provision. May I not retort and ask whether the hon. member can point to any case where an appeal to the Government of India from the decision of the Local Government has been allowed? If he cannot, then does not that show conclusively that the circumstances of the case are different, and that therefore a different procedure is applicable. I would also urge that as this appeal is to be allowed, the order must be made after the Commissioners have been heard. Where is the objection to provide for such hearing? If that is the intention of the section, why not plainly say so? Where is the objection to state plainly what the law intends, and to say so plainly if that is the intention? We know as a fact that on the occasion to which I have referred, the Commissioners were not heard before they were condemned; and therefore I am extremely anxious that it should be stated plainly, so that there should not be the slightest doubt on the subject. Under these circumstances, I hope that notwithstanding the opposition of my hon. friend, Your Honor, as President of the Council, will see your way to support these amendments. One thing more I have to say. If my hon. friend, the member in charge of the Bill, is so much struck with the erroneous principle of this section of the existing Bill, why was not the amending section proposed by him when he introduced the Bill? It was not proposed by him, but it was brought forward by the hon. Mr. Macaulay at the very last moment. It is a matter of surprise that the hon. member in charge of the Bill, who is so much struck with the erroneous principle of the existing law, never brought forward any amendment of it.

The HON. DR. GOOROO DASS BANERJEE said in reply—The Hon. Member in charge of the Bill has been pleased to point out the necessity for retaining the section in the general terms in which it stands, on the ground that although general default in the performance of their duties by the Corporation may not be a very probable thing, yet it is possible, and that when such a possibility happens, there will be good reason for the interference of Government. I have not had the honour of being a member of the Corporation, and it is therefore not for me to say what default by the Corporation is possible and what is not possible; but we have the word of the Hon. Member himself that it is not very probable that such default will be made. If that is so, where is the necessity to provide for a mere possible contingency which may after all never happen? I should have thought that the work of providing for probable contingencies is work enough for us. Then as to the question of enquiry, it has been said that it involves an erroneous principle, and the hon. member in charge of the Bill entered into a discussion on the general question as to whether the functions of the Municipality are functions delegated by the Government or are independent functions. I do not think it necessary to enter into a discussion as to whether the Municipality is an independent body and entitled to have any question in dispute between it and the Government decided by an independent tribunal. I concede to the fullest extent the correctness of the principle laid down by the hon. member in charge of the Bill, but I must say the hon. member has been labouring under a misapprehension. When I addressed the Council, I did not say that any of the powers of the Local Government to judge are to be curtailed in any way. I think I said, with some degree of distinctness, that I wanted the Corporation to be represented by some one on their behalf as an assessor, in order that the controlling authority, the Local Government, may be in full possession of the facts and details into which it would be necessary to enter to enable the Government to come to a right decision. I do not think that would infringe any principle of law or justice. My amendment concedes that the Local Government shall have

the right to judge; all I say is that it will be assisted very materially if it has before it the report of a Commission consisting, amongst others, of one member at least who has been nominated by the Commissioners.

The HON. BABU KALI NATH MITTER's motion that (c), (d), (e), (f), (g), (h), (i), (j) and (k) of clause (5) and clause (6) of section 37, be omitted, was put to the vote and negatived.

The HON. DR. GOOROO DASS BANERJEE's motion that in line 5 of section 38, after the word "duties" the words "relating to public health" be inserted, being put, the Council divided:—

Ayes 4.

The Hon. H. Pratt.
The Hon. Dr. Gooroo Dass Banerjee.
The Hon. Dr. Mahendra Lal Sircar.
The Hon. Babu Kali Nath Mitter.

Noes 7.

The Hon. C. H. Moore.
The Hon. Moulvie Abdul Jubbar.
The Hon. Sir Alfred Croft.
The Hon. Sir Henry Harrison.
The Hon. T. T. Allen.
The Hon. C. P. L. Macaulay.
The Hon. H. J. Reynolds.

So the Motion was negatived.

The HON. DR. GOOROO DASS BANERJEE's motion that in line 7 of section 38, after the word "enquiry" the words "by a Commission consisting of three persons, two of whom shall be appointed by the Local Government, and one by the Commissioners in meeting," be inserted, being put, the Council divided:—

Ayes 3.

The Hon. Dr. Gooroo Dass Banerjee.
The Hon. Dr. Mahendra Lal Sircar.
The Hon. Babu Kali Nath Mitter.

Noes 9.

The Hon. H. Pratt.
The Hon. C. H. Moore.
The Hon. Moulvie Abdul Jubbar.
The Hon. Sir Alfred Croft.
The Hon. Sir Henry Harrison.
The Hon. T. T. Allen.
The Hon. C. P. L. Macaulay.
The Hon. H. J. Reynolds.
His Honour the President.

So the Motion was negatived.

The HON. BABU KALI NATH MITTER's motion that, for section 38, the following be substituted, being put, the Council divided:—

"Upon complaint made to the Local Government that the Commissioners have made general default in the performance of any of the duties enumerated in clauses (3) and (4), and in (a) and (b) of clause (5), the Local Government, may, by notification in the *Calcutta Gazette*, appoint a Commission, consisting of three persons, of whom one shall be the Sanitary Commissioner for Bengal or any Medical Officer officiating for him, the second shall be appointed by the Commissioners in meeting within a fortnight from the date of the said notification, or in their default by the Local Government, and the third by the Local Government. And the Local Government shall order the members of the said Commission to report within a certain time to be fixed by the Local Government whether they are of opinion that any such general default has been made, and in that case to specify in their report what further provision should be made towards the performance of any of the duties in respect of which such default has been made, and to submit an estimate of the cost of the said further provision."

Ayes 4.

The Hon. H. Pratt.
The Hon. Dr. Gooroo Dass Banerjee.
The Hon. Dr. Mahendra Lal Sircar.
The Hon. Babu Kali Nath Mitter.

Noes 8.

The Hon. C. H. Moore.
The Hon. Moulvie Abdul Jubbar.
The Hon. Sir Alfred Croft.
The Hon. Sir Henry Harrison.
The Hon. T. T. Allen.
The Hon. C. P. L. Macaulay.
The Hon. H. J. Reynolds.
His Honour the President.

So the Motion was negatived.

The HON. BABU KALI NATH MITTER, by leave, withdrew the motion that after section 38, the following new section be inserted:—

"38A. On receipt of the said report, the Local Government shall forward the same for the consideration of the Commissioners; and if the Commissioners shall decline to carry out the provisions recommended therein, the Local Government may order that such

provisions, or any of them, or any portion of them, respectively, be carried out; and thereupon it shall be the duty of the Commissioners to comply with such orders, and to provide the funds mentioned in the said estimate or such portion thereof as the Local Government may fix; and the Chairman shall forthwith carry out such order and shall defray the cost of carrying out the same from the Municipal Fund, notwithstanding any power conferred on the Commissioners by section sixty-one or anything to the contrary contained in any other provision of this Act:

Provided that if there is a difference of opinion among the members of the said Commission, the opinion and report of the majority of the said members shall be held to be the opinion and report of the Commission."

The HON. BABU KALI NATH MITTER moved that, for the first paragraph of section 39, the following be substituted:—

"The Commissioners at a special meeting to be held for that purpose may, from time to time, nominate a proper and fit person residing within the limits of Calcutta to be appointed by the Local Government as the Chairman of the Commissioners"

He said:—Under the present Municipal Law of Bengal many municipalities have been entrusted with the duty of appointing their own Chairman, and of late this concession has been extended even to some of the minor municipalities. I fail to see why the Calcutta Municipality should not have some voice in the appointment of their Chairman. The policy of the law, as laid down in this Bill and in the existing Act, seems to be as if it was intended that the Commissioners should have some voice in the matter; for we find that in the appointment of officers on a salary not exceeding Rs. 200 per mensem, the Chairman of the Corporation has uncontrolled power. Then, as regards appointments between Rs. 200 and Rs. 500, he is to make nominations to the Commissioners, and the Commissioners are to appoint one of the persons so nominated by the Chairman; and in regard to appointments of Rs. 500 a month and upwards, the Commissioners have the absolute power of appointment subject to the approval of the Local Government. But there is one appointment as to which the Commissioners do not seem to have any power whatsoever. I fail to understand why that should be so. If they are competent to appoint all the superior officers of the Municipality, subject to the sanction of the Local Government, surely they ought to be allowed to have the privilege of nominating a person to be their Chairman. It seems to me that the Commissioners are in an excellent position to make such a nomination. So far as the appointments hitherto made by the Government of Chairmen of the Corporation are concerned, I believe they have given satisfaction generally. There was only one case in which satisfaction was not given, but with that exception the appointments made by the Government generally gave satisfaction. But I claim on principle that the Commissioners should have some voice in the appointment of their Chairman. If it be considered that the amendment proposed by me goes too far, I shall be quite content to make a modified proposal. In the same way as the Chairman is required to submit three names to the Commissioners in respect of appointments between Rs. 200 and Rs. 500 a month, the Commissioners might be authorised to send up to Government three names, out of which the selection should be made for the appointment of Chairman of the Corporation. If that proposal is approved, I shall have no objection to modify my amendment. My object is simply that the views of the Commissioners should be considered, and that the Government should make the appointment after the Commissioners have made their nominations.

The HON. MR. MACAULAY said:—I regret that my hon. friend in charge of the Bill leaves it to me to oppose the amendment. I do so on two grounds. First, I think that my hon. friend has proceeded on a wrong line in suggesting that the appointment of the Chairman is in any way of the same character as other officers of the Corporation. He has, I think, overlooked the provisions of section 61 of the Bill, under which the Chairman may exercise all the powers of the Commissioners. That removes the appointment from the same category as the subordinate officers of the Corporation. Beyond that we have to regard Calcutta in a different light from other municipalities in Bengal. No one would be more ready than myself to see the principle of Local Self-Government extended as far as possible, and I fully admit that the nomination to the office of Chairman is a proper development of that principle, and that this power should be given to the Commissioners of Municipalities where it can be given safely

But I draw a serious distinction between Calcutta and Municipalities in the interior. It must be remembered that in Mofussil Municipalities the Commissioners are concerned in managing their own affairs. In Calcutta the Commissioners are, to a great extent, managing the affairs of people in all parts of the world who are concerned in the welfare of the town as it affects commerce, though they have never been and may never be in Calcutta. We must look upon Calcutta as the capital of a great Empire, and, as such, we should secure as far as we possibly can its good Municipal Government.

The HON. SIR HENRY HARRISON said:—I was in no way unwilling to oppose this amendment myself; but as I was convinced that my hon. friend, Mr. Macaulay, would do so much more forcibly and eloquently than I could, I asked him to reply to the observations of the hon. mover of the amendment. Nevertheless I will add a few words, and in doing so I would draw attention to the difference between Calcutta and the homogeneous municipalities in the mofussil. In Calcutta the main difficulty lies in this—that there are people of different classes, different races, different nationalities and different religions, all of whose affairs have to be managed impartially and equitably by the Municipality. Looking at it in that light, is it desirable that the Chairman should be nominated by the Commissioners? The problem is an extremely complex one, and might well lead one to suppose that nothing short of administration by an officer of Government would satisfy all parties. It is of the utmost importance that any tendency to special national and race sympathies should be kept out of the Municipality. For this reason it seems most unwise that the appointment of Chairman should be thrown into the cauldron of Municipal contests as a prize to be carried off by the strongest party. The Chairman of the Municipality should be of no party, so that he may deal with all parties on an equality. If you make him the nominee of one particular party, would you not bring about the very thing you wish as much as possible to prevent? He would simply be the nominee of the majority, and the more completely he would be in harmony with the views and feelings of the majority, the more effectually would he work in the very way he should not work: any Chairman who would be completely in harmony with one party would be as completely antagonistic to the others. On the other hand, the Local Government, which is extremely interested in the welfare of all parties, and which has the best means of judging between them, should be the authority to select a fit person for the appointment. The Hon. Member has himself borne testimony to the success of the present mode of appointing the Chairman during the last ten years. Could they do better then let well alone?

THE HON. BABU KALI NATH MITTER said in reply:—My own experience is that the Chairman has always belonged to one of the parties in the Corporation, and the members of the opposition to the other; so that there have been two parties, the Chairman and his followers, and the members of the opposition. It is a mistake to say that the Chairman is wholly independent of parties, because it cannot be so. He has to work by majorities. I think the very reasons he has assigned strongly support my contention. Many municipalities have been entrusted with this privilege, and surely the metropolis of the Empire can be trusted with it. We have not got any experience of nominations by the Commissioners; but in one or two instances in which the Government accepted the views of the Commissioners, the appointment gave complete satisfaction. In every instance, as the hon. member in charge of the Bill said, there would be competition, and the Chairman would side with the party which elected him; but it is very difficult to say whether in practice it would so happen. I can, however, conceive it to be quite possible for the nomination to be made without canvassing. If my hon. friend desires to restrict the appointment to the members of the Civil Service, he is right in what he said; but if the appointment is to be thrown open to other persons, then the nomination should be left to the Commissioners. It may be that the Commissioners would nominate a gentleman who is not a member of the Civil Service, and such person may turn out a success; but without allowing the thing to work, it is difficult to say what would be the result. The ultimate power would rest with the Local Government to accept the nomination of the Commissioners; and, with this

safeguard, I do not see why this privilege should not be granted to the Corporation. I think the Commissioners have shown that they are persons who ought to be trusted.

The motion was put to the vote and negatived.

The HON. SIR HENRY HARRISON moved that in line 7 of section 41 for the words "Collector of Taxes" the word "Collector" be substituted.

He said:—The term "Collector of Taxes" was a misnomer. The Act distinguishes between rates and taxes. Taxes are imposed on trades and professions, and rates are levied from the community at large. As a matter of fact, the Collector is the Collector of Rates, and not the Collector of Taxes; the latter being collected by the officers of the License Department.

The motion was put to the vote and carried.

The further consideration of the clauses of the Bill was postponed to the next sitting of the Council.

BENGAL MUNICIPAL ACT, 1884, AMENDMENT BILL.

The HON. MR. MACAULAY moved for leave to introduce a Bill to amend the Bengal Municipal Act, III of 1884. In doing so, he said:—This is a measure to which Your Honour made reference in your opening Address. But I may inform the Council that since that address was delivered, some correspondence had taken place between the Government of India and the Local Government, with the result that the scope of the Bill will be much more limited than was originally proposed. It was originally suggested that the Government of Bengal should have the same power as other Local Governments in India under their respective Municipal Acts, without referring to the Commissioners of a Municipality, to exclude from its limits any lands or buildings in the occupation of the State for State purposes. The Lieutenant-Governor, however, represented that as the law stood any change of limits would require the sanction of the Commissioners of the Municipality, we have practically to guard against two dangers; undue assessment and undue interference. As regards undue assessment it was considered that the interests of the State were sufficiently protected by the Imperial Municipal Taxation Act, XI of 1881; and as regards protecting State property from undue interference, it was believed that it might be effected by restricting the power of the Government with regard to altering the limits of Municipalities to lands and buildings belonging to the State of a particular character. In this view the Government of India concurred. The Council are aware that the necessity for legislation arose out of the proceedings of the North Barrackpore Municipality. The Commissioners of that Municipality claimed the right to enter upon and to inspect the premises of the Gunpowder Manufactory, and the Superintendent of that Manufactory represented—and it was a reasonable representation—that that was a power which could not ordinarily be exercised without risk to the very delicate and dangerous operations under his control. The Commissioners, however, had the power, and so long as the Act remained in force, and the manufactory was within their Municipality, they were entitled to exercise that power. The only way out of the difficulty was to alter the limits of the Municipality so as to exclude this magazine from the municipal limits. The Commissioners declined to give their assent to this proposal, and we now ask the Council to amend the Act so as to give the Government power to do so without the consent of the Commissioners of the Municipality. It has been considered that cases of this kind will be sufficiently met if section 9 of the Act be amended so as to give the Government power to exclude from municipal limits any land or buildings in the occupation of the State for military or for naval purposes. With that object, I ask leave to introduce a Bill.

The motion was put to the vote and carried.

The Council was adjourned to Saturday, the 7th April, 1888.

C. H. REILY,

*Assistant Secretary to the Govt. of Bengal,
Legislative Department.*

CALCUTTA;
17th April, 1888. }

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government during the week ending the 14th April 1888.

No.	District and date of return	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
RIVERWAH DIVN.	1 Burdwan Apl. 14, '88	Nil	Weather—extremely hot. Prospects of crops favourable. Rain is now wanted. Price of common rice has fallen to a little over 22 seers per rupee.
	2 Bankoora „ 14, '88	Nil	Weather—seasonable, strong westerly wind in the day. Prospects of indigo, cotton, boro, and til good. Planting of sugarcane proceeds. Prices stationary.
	3 Beerbhoom „ 14, '88	Nil	Weather—hot. State and prospects of crops good.
	4 Midnapur „ 14, '88	Nil	Weather—hot; cool wind in evening. Boro crop is commencing to be reaped, and promises well. Rain is required.
	5 Hooghly „ 14, '88	Nil	Weather—abnormally hot. Prospects of crops not so good as in last week, owing to excessive heat and want of rain.
	Howrah „ 16, '88	Nil	South winds. Boro dhan doing well.
<i>Central Districts.</i>			
PRESIDENCY DIVN.	6 24 Parghs. Apl. 17, '88	Nil	Weather—very hot with high winds and cool nights. No crops on the ground except sugarcane, which is doing well. Lands are still being tilled for rice crops.
	7 Nuddea „ 14, '88	Nil	Weather—Days exceedingly hot with sultry evenings and pleasant cool mornings. Tillage for early rice in good progress. Indigo doing well. Rain much wanted.
	8 Khoolna „ 14, '88	Nil	Weather—sultry. Boro rice promises well. Rain urgently needed for ploughing. The spread of cholera, fever, and cattle-disease is so serious as likely to effect agricultural operations.
	9 Jessore „ 14, '88	Nil	Weather—very hot with a good deal of west wind. Rain is wanted for all crops.
	10 Moorshedabad „ 14, '88	Nil	Weather—getting warmer. Sowing of <i>aus</i> paddy going on. Harvesting of <i>rubbi</i> crops over.
	11 Dinagepur Apl. 14, '88	Nil	Weather—hot with strong west winds at midday. Jute and <i>khadoi</i> are being sown.
RAJSHAHYE DIVN.	12 Rajshahye „ 14, '88	Nil	Weather—very hot. Rain urgently required for jute, <i>aus</i> , and <i>aman</i> , also for further sowings.
	13 Rungpur „ 14, '88	Nil	Weather—hot with strong west winds. Crops doing fairly, but require rain.
	14 Bogra „ 14, '88	Nil	Weather—very hot in the beginning of the week; cloudy and cooler at the end. State and prospects of crops good.
	15 Pubna „ 14, '88	Nil	Weather—hot. Rain wanted. Prospects of crops good.
	16 Darjeeling „ 14, '88	Nil	Weather—cloudy, no rain. Rain much wanted in the hills. Lands are still being prepared in the Terai. Some jute already sown. Prices steady.
	17 Julpigore „ 14, '88	Nil	Weather—hot with strong east wind. Early rice has germinated in parts. Rain much wanted. Prices stationary.
<i>Eastern Districts.</i>			
DACCA DIVISION.	18 Dacca Apl. 14, '88	0.42	Weather—hot and windy. A terrific tornado visited Dacca city and Hashail, a village in Munshigunge, on the 7th. Paddy and jute are being sown. Boro paddy thriving. Harvesting of <i>rubbi</i> crops nearly completed. Prospects continue favourable.
	Manickgunge „ „	0.37	
	Munshigunge „ „	0.20	
	19 Furreedpur „ 14, '88	Nil	Weather—hot. Prospects of crops fair, but rain is wanted for jute and early paddy sowings.
	20 Backergunge „ 13, '88	Nil	Weather—rather warm. Rain wanted. Prospects of crops good.
	21 Mymensingh „ 13, '88	Nil	Weather—very hot. Prospects of crops good. Rain wanted for cultivation.
<i>Chittagong Division.</i>			
CHITTAGONG DIVN.	22 Chittagong Apl. 17, '88	Nil	Weather—variable. Rain much wanted. Prospects of crops fair. Prices stationary.
	23 Noakholly „ 13, '88	Nil	Weather—seasonable. Strong southerly wind. Harvesting of <i>rubbi</i> crops continues. Sowing of <i>aus</i> progressing.
	24 Tipperah „ 12, '88	Nil	Weather—seasonable; some rain would be very beneficial. Whatever standing crops there are, are being reaped with good outturn. Lands are being prepared for rice and jute.
	25 Chittagong Hill Tracts „ 11, '88	0.79	Weather—foggy in the morning, hot till midnight, and cool in the latter part of the night. A shower of rain on the 9th. Joom burning continues. Tobacco, chillie, and other winter crops are being gathered. Planting of sugarcane commenced.
	Hill Tipperah „ 12, '88	Nil	Weather—hot. Early rice is being sown in some parts. Prospects of boro paddy fair.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
PATNA DIVN.	26 Patna Apl. 14, '88	Nil	Weather—dry and sultry. Threshing of <i>rubbi</i> going on. Opium weighment in progress. Prices of food-grains stationary.
	27 Gya „ 14, '88	Nil	Weather—very hot. <i>Rubbi</i> being threshed. Sugarcane being irrigated.
	28 Shahabad „ 14, '88	Nil	Weather—dry and hot with high west wind generally at midday. <i>Rubbi</i> threshing still in progress. Sugarcane is being irrigated. Opium weighment nearly finished; outturn not quite so good as expected.
	29 Durbhunga „ 14, '88	Nil	Weather—hot. West wind prevailing. Threshing of <i>rubbi</i> continues. Prospects of early rice, <i>moong</i> , and indigo promising. Opium weighment in progress. Prices remain stationary.
	30 Mozufferpur „ 14, '88	Nil	Weather.—Days hot, mornings cool and pleasant. Threshing of <i>rubbi</i> crops progressing. Paddy, <i>moong</i> , and <i>cheena</i> thriving. These crops are still being sown in places. Rain required.
	31 Sarun „ 14, '88	Nil	Weather—hot and dry. Threshing of <i>rubbi</i> crops is in full progress. Sugarcane is being irrigated. Prospects of all crops on the ground good. Weighment of opium in full swing; outturn excellent.
	32 Champaran „ 14, '88	Nil	Weather—dry with west wind. Threshing of <i>rubbi</i> crops in progress. Preparation of fields for <i>bhadoi</i> and <i>aghavi</i> sowings going on. Indigo doing well. Weighment of opium progressing satisfactorily.
BHAGULPORE DIVN.	33 Monghyr Apl. 14, '88	Nil	Weather—hot and dry with strong west wind at mid-day. <i>Rubbi</i> harvest completed; threshing in progress with fair outturn.
	34 Bhagulpur „ 14, '88	Nil	Weather—hot with strong west winds. Sugarcane doing well. Rain wanted. <i>Rubbi</i> outturn eight to ten annas.
	35 Purneah „ 14, '88	Nil	Weather.—Genial west winds have abated. Land is being prepared for ensuing rice.
	36 Maldah „ 14, '88	Nil	Weather—very dry. Days hot, with changeable winds, generally westerly. Nights still moderately cool. <i>Boro</i> paddy still doing fairly. Some <i>bhadoi</i> seedlings are up, and some being sown, but rain is very much wanted, and the unusually prolonged drought is doing harm both to standing crops and to preparation of land for future crops. Common rice selling at an average of 23½ seers per rupee.
	37 Southal Pergahs. „ 14, '88	Nil	Weather—hot with strong west winds. <i>Rubbi</i> nearly all cut; outturn about 12 annas (16 being average). Indigo prospects bad. Some sugarcane planted. Rain wanted for sugarcane and mango. <i>Mohua</i> outturn not good.
ORISSA.			
ORISSA DIVN.	38 Cuttack Apl. 13, '88	Nil	Weather—very hot. <i>Dalua</i> rice is being cut with fair outturn. Rice is sold at 21 seers per rupee in town.
	39 Pooree „ 12, '88	Nil	Weather—seasonable. Ploughing going on. <i>Dalua</i> crop being harvested. <i>Rubbi</i> being gathered. Sugarcane, cotton, <i>dalua</i> , and mango are in want of rain in the Khurda sub-division. Common rice 20 seers 2 chittacks per rupee in the Sudder sub-division and 21 seers 15 chittacks in the Khurda sub-division.
	40 Balasore „ 13, '88	Nil	Weather.—Days hot but nights fairly cool. <i>Dalua</i> rice is being harvested in south. Cultivation of lands in progress everywhere. Rain wanted.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIVN.	41 Hazaribagh, Apl. 13, '88	Nil	Weather—hot, strong west winds. Sugarcane promising. Prospects of mango fair. <i>Mohua</i> yielding well except in parts of the district. Opium weighment in progress. Condition of agricultural stock generally fair.
	42 Lohardugga „ 14, '88	Nil	Weather—very warm. Harvesting of <i>rubbi</i> continues. <i>Mohua</i> gathering is going on. Prices steady.
	43 Singbhoom „ 13, '88	Nil	Weather—most extraordinary; hot, moist, and muggy. Wheat is still being harvested. Sugarcane and cotton doing well. <i>Mohua</i> and mangoes suffered much; not more than half crops expected.
	44 Manbhoom „ 14, '88	Nil	Weather—very hot with strong west winds. Sugarcane is being planted. <i>Mohua</i> dropping; probable outturn from 12 to 16 annas. Cotton doing well. Great scarcity of water throughout the district.

Published for general information.

CALCUTTA, REVENUE DEPT.;
The 17th April 1888.P. NOLAN,
Secy. to the Govt. of Bengal

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.												
			AIR PRESSURE.			WIND.			TEMPERATURE.						
			Mean barometric height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
ORISSA.	Pooree	Pooree	29.750	29.800	-.008	SSW	497	86.2	9th, 10th & 13th Apl.	79.8	10th Apl.	85.8	80.5	83.2	+1.9
	Pooree	Gopalpore	29.787	29.809	-.053	SSW	377	88.5	9th ..	77.6	7th, 9th & 10th Apl.	87.3	78.2	82.8	-1.3
	Pooree	False Point	29.708	29.788	-.054	SW	101	108.4	9th ..	74.4	7th ..	104.8	78.3	91.0	+2.3
	Cuttack	Cuttack	29.733	29.791	-.051	SSW	222.0	101.5	8th ..	74.3	9th & 10th Apl.	98.5	76.7	87.0	+2.4
	Balasore	Balasore	29.776	29.802	-.055	SSW	535	97.7	10th ..	70.0	10th Apl.	91.0	80.6	85.8	+1.7
	South-West Midnapore	Saugor Island	29.643	29.702	-.056	S	130.7	107.0	13th ..	72.7	10th ..	105.7	75.4	90.6	+2.9
	South 24-Pergunnahs	Midnapore	29.733	29.774	-.064	SSW	175	100.4	9th ..	72.7	8th & 9th Apl.	96.6	75.8	86.2	+1.3
	24-Pergunnahs	Howrah	29.664	29.703	-.063	SW	111.2	106.8	13th ..	67.9	9th Apl.	104.2	74.0	89.1	+1.5
	Hooghly	Burdwan	29.648	—	—	WNW	149	108.6	13th ..	72.1	10th ..	105.6	76.2	90.4	—
	Burdwan	Bankoora	29.429	29.729	-.067	SW	100.1	108.5	13th ..	72.1	10th ..	105.3	75.2	90.3	+3.6
SOUTH-WEST BENGAL.	Bankoora	Bankoora	29.680	29.740	-.052	South-Westerly	146.9	105.7	13th ..	72.3	9th & 10th Apl.	103.2	74.7	89.0	+2.0
	Beelbhum	Baneogunge	29.674	29.730	—	SW	133.2	104.9	13th ..	69.4	9th Apl.	102.4	74.3	88.4	—
	West Burdwan	Berhampore	29.737	29.780	-.073	SW	98.6	103.2	10th ..	74.2	10th ..	101.6	77.6	89.6	+3.8
	Mooredahabad	Krishnachur	29.767	29.807	-.037	S & SSW	195.0	88.6	11th & 13th Apl.	74.0	8th ..	87.8	75.3	81.0	+0.7
	Nuddea	Chittagong	29.792	29.794	-.045	S	168.7	95.8	9th ..	74.9	10th ..	92.5	76.9	84.7	+3.4
	Jessore	Chittagong Hill Tracts	29.781	29.825	-.020	SSW	197.2	91.7	10th ..	75.8	9th ..	88.9	77.7	83.3	+3.1
	Khoolna	Backergunge	29.772	29.811	-.018	South-Westerly	232	93.5	9th ..	69.9	10th ..	94.2	73.8	84.0	+0.9
	Chittagong	Noakholly	29.751	29.773	-.063	SW	226.3	95.9	9th ..	74.1	10th ..	94.3	76.3	85.3	+2.1
	Chittagong Hill Tracts	Furriedpore	29.766	29.801	-.058	S	173.8	94.8	10th ..	74.8	11th ..	92.7	76.0	84.4	+3.9
	Backergunge	Dacca	29.710	29.768	-.047	SE	149.8	91.5	12th ..	69.8	1 ..	90.7	74.2	82.4	+2.6
EAST BENGAL.	Commillah	Commillah	29.656	29.719	—	S	136.8	104.3	8th ..	68.8	11th ..	101.3	73.1	87.2	—
	Mymensingh	Bogra	29.693	29.739	-.085	South-Westerly	138.8	101.3	8th ..	67.7	9th ..	99.9	72.5	86.2	+4.7
	Bogra	Putna	29.671	29.741	-.067	SW	114.3	102.4	12th ..	66.7	10th ..	100.0	69.7	84.9	+1.8
	Putna	Rajshahye	29.637	—	—	SW, NW	121.6	101.8	12th ..	68.7	10th ..	101.0	70.0	85.5	—
	Rajshahye	Maldah	29.612	29.731	-.080	WSW & NE	187	101.1	7th ..	66.2	7th ..	95	70.0	84.3	+3.1
	Maldah	Dinapore	29.596	29.719	-.134	SW & SE	149	100.3	8th ..	67.0	10th ..	94.0	71.8	83.4	+5.1
	Dinapore	Rungpore	29.458	29.746	-.119	Easterly	143.1	92.0	8th ..	61.4	7th ..	89.5	65.2	77.9	-0.9
	Rungpore	Julpigoree	22.900	—	-.077	Variable	210	64.4	8th ..	44.7	10th ..	62.1	48.1	55.1	+2.3
	Julpigoree	Cooch Behar	29.604	29.729	-.079	NE	132.0	103.3	8th ..	63.7	10th ..	99.0	67.5	83.8	+0.6
	Cooch Behar	Darjeeling Hill Tracts	29.552	29.718	-.085	ESE & SW	208	98.9	8th ..	69.5	10th ..	96.1	73.9	85.1	+1.6
NORTH BENGAL.	Darjeeling Hill Tracts	Purneah	29.470	29.695	-.099	Variable	201.1	102.3	8th ..	60.4	10th ..	98.1	65.8	82.0	+1.1
	Purneah	North Bhagulpore	29.527	29.719	-.074	W	243.5	99.5	13th ..	66.6	11th ..	93.0	69.7	81.4	-2.2
	North Bhagulpore	Mozufferpore	29.380	29.734	-.055	SW	202.9	106.4	13th ..	70.0	10th ..	103.8	74.8	88.6	+4.6
	Mozufferpore	Durbhunga	29.448	29.736	-.061	North-Westerly	233.6	102.9	8th ..	70.3	7th ..	99.5	72.6	86.1	+3.1
	Durbhunga	Chumbarun	29.629	29.725	-.060	W, NW	169.9	104.4	8th ..	65.7	11th ..	101.8	70.1	86.0	+2.6
	Chumbarun	Saran	29.336	29.736	-.105	Westerly	151.0	106.5	13th ..	66.9	10th ..	104.0	69.1	86.8	-1.9
	Saran	Shahabad	29.545	29.727	-.081	Westerly	137.4	104.9	8th ..	63.7	11th ..	101.4	71.5	86.3	+0.3
	Shahabad	Gya	29.506	29.728	-.079	W	165	103.4	8th ..	66.0	11th ..	99.3	73.1	85.7	+5.8
	Gya	Patna	29.234	—	-.069	W, NW	143.1	106.1	8th ..	50.8	11th ..	103.1	74.1	84.6	+3.0
	Patna	South Bhagulpore	27.783	29.740	-.047	North-Westerly	844.1	101.6	8th ..	66.3	9th ..	97.3	71.8	84.0	+1.4
SOUTH BENGAL.	South Bhagulpore	Bhagulpore	27.803	29.733	-.044	WNW	181.9	100.5	13th ..	66.9	7th ..	97.9	73.1	85.0	+6.0
	Bhagulpore	Monghyr	29.001	—	-.080	SSW	51.9	108.3	13th ..	74.4	10th ..	103.9	73.8	89.0	+3.5
	Monghyr	Bombal Pergunnahs	—	—	—	—	—	—	—	—	—	—	—	—	—
	Bombal Pergunnahs	Hazaribagh	—	—	—	—	—	—	—	—	—	—	—	—	—

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period as the observations of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0, and a cloudy sky by 100. The numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional officers, and the mean of the rainfall in the district sending in returns divided by the number of stations. A rainy day is one on which at least .01 inch of rain has fallen.

for the week ending Friday, the 13th of April 1888.

DISTRICT OBSERVATIONS.															Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.												
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1887.			Average number of rainy days.	Normal number of rainy days.					
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
78	0.1	Nil	Nil	0.38	Nil	0.50	-0.50	46.52	58.70	-12.18	0.0	0.7	Pooree ...	Pooree ...	ORISSA.		
70	2.4	—	—	—	—	—	—	—	—	—	—	—	Gopalpara ...	False Point ...			
55	0.7	—	Nil	0.16	0.07	0.31	-0.24	48.00	54.90	-6.91	0.0	0.6	Cuttack ...	Cuttack ...			
60	0	—	Nil	0.37	0.25	0.55	-0.30	46.38	56.97	-10.59	0.0	0.8	Balasore ...	Balasore ...	SOUTH-WEST BENGAL.		
72	3.3	—	Nil	0.29	Nil	0.35	-0.35	62.92	65.73	-2.81	0.0	0.6	Saugor Island ...	South-West Midnapore ...			
40	0.1	—	Nil	0.28	Nil	0.37	-0.37	53.68	54.58	-0.90	0.0	0.6	Midnapore ...	South 24-Pergunnahs ...			
53	0.4	—	Nil	0.32	Nil	0.58	-0.58	44.28	55.67	-11.39	0.0	0.7	Calcutta ...	24-Pergunnahs ...	SOUTH-WEST BENGAL.		
42	0	—	Nil	0.39	0.05	0.60	-0.61	48.00	49.88	-1.82	0.0	0.6	Howrah ...	Howrah ...			
24	0	—	Nil	0.20	0.07	0.24	-0.17	51.65	54.51	-2.86	0.0	0.5	Burdwan ...	Burdwan ...			
17	0	—	Nil	0.32	Nil	0.45	-0.45	49.09	54.55	-5.46	0.0	0.6	Bankoora ...	Bankoora ...	SOUTH-WEST BENGAL.		
42	0	—	Nil	0.41	Nil	0.59	-0.59	60.60	52.14	+8.26	0.0	0.6	Raneegunge ...	Beerbhoom ...			
40	0.1	—	Nil	0.60	0.00	1.05	-0.99	46.65	53.32	-6.67	0.0	0.8	West Burdwan ...	West Burdwan ...			
57	0	—	Nil	0.67	Nil	1.00	-1.00	45.31	58.20	-12.89	0.0	0.9	Krishnagur ...	Moorsheadabad ...	SOUTH-WEST BENGAL.		
72	0.3	0.03	0.02	0.49	0.02	0.63	-0.61	102.46	117.88	-15.42	0.3	0.8	Jessore ...	Nudda ...			
60	3.0	—	Nil	0.59	Nil	0.77	-0.77	64.02	82.34	-18.32	0.0	0.9	Chittagong ...	Chittagong ...			
60	4.0	—	Nil	1.31	Nil	1.67	-1.67	78.53	116.31	-37.78	0.0	1.7	Demagiri ...	Chittagong Hill Tracts ...	SOUTH-WEST BENGAL.		
60	1.3	—	Nil	0.77	Nil	1.15	-1.15	41.73	61.39	-19.66	0.0	1.4	Barisal ...	Buckergunge ...			
65	2.1	0.36	0.25	1.08	0.25	1.52	-1.27	47.81	60.78	-12.95	1.0	1.7	Noakholly ...	Noakholly ...			
67	3.1	—	0.30	1.22	0.03	1.69	-1.70	51.11	78.16	-27.04	0.3	1.8	Farroodpore ...	Farroodpore ...	SOUTH-WEST BENGAL.		
61	3.7	—	0.15	0.82	0.33	0.08	-0.65	64.12	71.78	-7.66	0.2	1.3	Dacca ...	Dacca ...			
46	0.0	—	Nil	0.35	Nil	0.45	-0.45	61.55	59.64	+1.91	0.0	0.6	Commillah ...	Commillah ...			
51	1.4	—	Nil	0.57	Nil	1.02	-1.02	47.80	57.40	-9.60	0.0	0.2	Mymensingh ...	Mymensingh ...	SOUTH-WEST BENGAL.		
44	0	—	Nil	0.25	Nil	0.58	-0.58	51.90	56.44	-4.54	0.0	0.5	Bogra ...	Bogra ...			
53	0	—	Nil	0.29	Nil	0.36	-0.36	47.02	56.50	-9.48	0.0	0.5	Sorajunge ...	Pabna ...			
32	0	—	Nil	0.10	Nil	0.16	-0.16	70.08	57.47	+12.61	0.0	0.3	Rampore Saaulah ...	Rajshahye ...	SOUTH-WEST BENGAL.		
51	0	—	Nil	0.12	Nil	0.95	-0.86	83.40	76.16	+7.33	0.0	1.1	Maldah ...	Maldah ...			
53	0.1	—	Nil	0.46	Nil	1.06	-1.06	120.72	118.85	+6.87	0.0	1.0	Dinapore ...	Dinapore ...			
53	2.1	—	Nil	0.82	Nil	1.39	-1.39	121.76	126.24	-3.48	0.0	1.8	Rangpore ...	Rangpore ...	SOUTH-WEST BENGAL.		
30	0	—	Nil	0.27	Nil	0.37	-0.37	60.33	59.40	+0.93	0.0	0.5	Jalpigoree ...	Jalpigoree ...			
45	0	—	Nil	0.16	Nil	0.21	-0.21	47.57	44.45	+3.12	0.0	0.3	Cooch Behar ...	Cooch Behar ...			
26	0.6	—	Nil	0.15	Nil	0.18	-0.18	50.66	46.26	+4.30	0.0	0.2	Purneah ...	Purneah ...	SOUTH-WEST BENGAL.		
46	0	—	Nil	0.23	Nil	0.31	-0.31	49.07	47.64	+1.33	0.0	0.2	Mozufferpor ...	Mozufferpor ...			
9	?	—	—	—	—	—	—	—	—	—	—	—	Durbhunga ...	Durbhunga ...			
18	0	—	Nil	0.08	Nil	0.12	-0.12	38.67	41.20	-2.53	0.0	0.3	Mothari ...	Chumparun ...	SOUTH-WEST BENGAL.		
25	0	—	Nil	0.06	Nil	0.10	-0.10	39.34	40.67	-1.33	0.0	0.2	Chupra ...	Sarun ...			
30	0	—	Nil	0.05	Nil	0.08	-0.08	38.81	42.42	-3.61	0.0	0.3	Dohree ...	Dohree ...			
36	0	—	Nil	0.10	Nil	0.20	-0.20	43.60	44.31	-0.71	0.0	0.4	Buxar ...	Shahabad ...	SOUTH-WEST BENGAL.		
12	0	—	Nil	0.20	Nil	0.25	-0.25	53.41	51.88	+1.53	0.0	0.4	Arrau ...	Arrau ...			
9	0	—	Nil	0.06	Nil	0.08	-0.08	48.07	52.19	-4.12	0.0	0.3	Gya ...	Gya ...			
37	0.2	—	Nil	0.18	Nil	0.24	-0.24	46.35	49.43	-3.08	0.0	0.6	Bankipore ...	Patna ...	SOUTH-WEST BENGAL.		
20	0	—	Nil	0.14	Nil	0.23	-0.23	53.11	53.76	-0.65	0.0	0.4	South Bhagulpore ...	South Bhagulpore ...			
													Monchyr ...	Monchyr ...			
													Dumka ...	Sonthal Pergunnahs ...	SOUTH-WEST BENGAL.		
													Hazaribagh ...	Hazaribagh ...			
													Lohardugga ...	Lohardugga ...			
													Raurea ...	Manbhoom ...	CHOTA NAGPORE.		
													Chyemana ...	Singbhoom ...			

The variation is positive when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The average of the means for the district is the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisions.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 13th of April 1888.

Meteorological Station.	District.	Station.	RAINFALL.						TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1887.	Average rainfall from 15th May to date.
			Saturday, 7th April.	Sunday, 8th April.	Monday, 9th April.	Tuesday, 10th April.	Wednesday, 11th April.	Thursday, 12th April.	Friday, 13th April.	Number of rainy days.	Rainfall week.			
SOUTH-WEST BENGAL.	Pooree	Pooree	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	36.55	53.61
		Khurdah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	39.93	59.19
		Banpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	39.03	54.00
		False Point	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.38	70.09	87.70
		Gop	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	30.22	?
		Pipli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
	Cuttack	Jagatsingapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.14	33.68	40.50
		Banki	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.37	43.05	55.24
		Cuttack	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.88	51.45	58.91
		Kondrapara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.33	54.76	51.82
		Jajpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.52	50.80	56.20
SOUTH-WEST BENGAL.	Balasore	Dharmasalla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	44.19	?
		Salipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.31	?
		Chandhall	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.59	43.63	50.86
		Bhuddruck	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.49	48.88	56.53
		Sorah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.34	42.40	55.59
	Midnapore	Balasore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.44	56.18	61.83
		Jellapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.47	40.05	55.48
		Baripodah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.06	41.43	57.41
		Contai	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.33	52.05	64.09
		Saugor Island	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.23	74.18	69.34
SOUTH-WEST BENGAL.	24-Pergunnahs	Tunlook	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.31	51.63	54.28
		Midnapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.34	49.12	51.83
		Ghatinal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.45	54.26	57.47
		Kukrahaty	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	58.42	?
		Heria	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45.41	?
	Howrah	Bhagwanpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45.00	?
		Garbeta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61.97	?
		Diamond Harbour	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	61.65	62.26
		Canning Town	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.32	?
		Alipore Jail	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.57	57.20	59.57
SOUTH-WEST BENGAL.	Hooghly	Barrackpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.59	43.04	53.27
		Dum-Dum	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.62	43.02	53.50
		Barnet	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.51	42.61	53.82
		Buacrhath	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	51.26	55.30
		Howrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.81	40.94	54.90
	Hooghly	Mohesraka (Gulobariah.)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.39	41.74	50.19
		Serampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.01	37.00	54.21
		Hooghly	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.66	42.97	51.80
		Jehanabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.58	37.73	56.14
		Culina	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.06	40.37	47.85
SOUTH-WEST BENGAL.	Burdwan	Burdwan	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00	47.45	51.23
		Cutwa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	50.43	50.29
		Raneegunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	47.19	51.38
		Mankur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	44.50	?
		Bankoora	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	45.32	54.55
	Bankoora	Bishenpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.35	57.32	53.26
		Mahara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.06	50.37	51.19
		Khatra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	51.12	58.89
		Indas	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	52.04	?
		Kotalpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	46.19	?
SOUTH-WEST BENGAL.	Beerbhoon	Anda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	39.49	?
		Gangajalghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	50.49	?
		Kaipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	53.64	?
		Sonamukhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	35.06	?
		Bh. Soory	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	51.83	56.10
	Nuddea	Hutampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.48	51.87	56.70
		Rampore Haut	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	43.40	53.31
		Botpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	42.48	?
		Ransghat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	52.82	51.15
		Kushnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.06	44.53	49.07
SOUTH-WEST BENGAL.	Khoolna	Choodanga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00	46.28	55.37
		Meherpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.08	51.72	51.00
		Koowites	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.02	48.85	58.79
		Satkira	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.89	46.93	61.04
		Bagirhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.90	54.94	56.26
	Jessore	Khoolna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.66	49.21	59.50
		Narail	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.97	20.78	51.63
		Jessore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.24	44.11	49.79
		Jhemdah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.25	47.03	55.90
		Magoorah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.12	33.59	55.17
SOUTH-WEST BENGAL.	Moorshedabad	Bongong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.86	58.88	54.78
		Kandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.79	48.07	53.77
		Berhampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	57.86	53.89
		Lalbagh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	70.29	50.46
		Azimungo	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.00	61.10	51.34
	Chittagong	Jangipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.07	63.47	50.15
		Lalgaia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.02	62.79	53.53
		Akhriganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	54.46	?
		Patkabari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Cox's Bazar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.53	134.78	136.88
SOUTH-WEST BENGAL.	Chittagong	Chittagong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.73	50.17	56.77
		Kutubdia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	79.40	?
		Sakanya	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	65.01	?
		Rangamati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.79	62.89	57.23
		Ruma	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.00	65.71	55.74
	Backergunge	Patuakhali	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.81	70.79	51.18
		Porozpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.28	53.36	73.21
		Barrisal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.25	61.04	74.48
		Bhoia	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.78	61.34	69.88
		Patuakhali	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.81	70.79	51.18

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 13th of April 1888—contd.

Meteorological Division.	District.	Station.	RAINFALL.								TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1887.	Average rainfall from 15th May to date.
			Saturday, 7th April.	Sunday, 8th April.	Monday, 9th April.	Tuesday, 10th April.	Wednesday, 11th April.	Thursday, 12th April.	Friday, 13th April.	Number of rainy days.	Rainfall in inch.					
WEST BENGAL—contd.	Noakhally.	Gournaddi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.40	?	
		Bauphal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	64.07	?	
		Noakhally	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.57	77.63	115.80	
		Penney	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.77	79.39	116.44	
	Furreedpore.	Harishpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	77.07	?	
		Ramganj	Nil	Nil	0.10	Nil	Nil	Nil	Nil	1	0.10	0.10	?	69.58	?	
		Madaripore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.19	88.50	61.88	
	Dacca.	Furreedpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.27	45.30	62.70	
		Goalundo	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.00	41.24	61.02	
		Munshigunge	Nil	0.20	Nil	Nil	Nil	Nil	Nil	1	0.20	0.20	1.85	47.17	79.19	
		Dacca	0.42	Nil	Nil	Nil	Nil	Nil	Nil	1	0.42	0.42	1.68	53.90	65.64	
	Hill Tipperah.	Narainnunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.34	50.82	67.46	
		Mattekunge	0.37	Nil	Nil	Nil	Nil	0.02	Nil	2	0.39	0.39	1.20	39.32	65.06	
		Joydebpore	Nil	0.30	Nil	Nil	Nil	Nil	Nil	1	0.30	0.30	?	56.24	?	
		Agartola	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.10	1.67	53.31	69.77	
		Gomila	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.03	53.67	84.43	
		Chandnora	Nil	Nil	1.35	Nil	Nil	Nil	Nil	1	1.35	1.35	1.35	47.77	87.37	
		Brahmunheria	Nil	Nil	Nil	0.16	Nil	Nil	Nil	1	0.16	1.23	1.69	49.57	70.84	
	Mymensingh.	Ramchandra-pore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.12	?	
		Nasirnagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	?	36.15	?	
		Haidkandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	39.79	?	
Kasba		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	62.76	?		
Laksham		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	35.40	?		
Kishoregunge		Nil	Nil	Nil	Nil	0.73	Nil	Nil	1	0.73	1.15	1.66	62.31	73.04		
Atia (Tangal)		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.88	4.72	69.32		
Mymensingh		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.20	72.20	78.71		
Jamshore		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.72	63.51	68.64		
Netrokona		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	79.12	75.02		
Subornakhally.	Subornakhally	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	55.45	?		
	Purupore	0.30	Nil	Nil	Nil	Nil	Nil	Nil	1	0.30	0.30	?	12.07	?		
NORTH BENGAL.	Pabna.	Deuaganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	81.85	?		
		Pabna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.12	41.64	58.76	
	Bogra.	Sorakunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.41	63.91	66.12	
		Sherpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	49.26	61.80	
		Nowkhilla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.41	60.33	66.85	
		Bogra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.88	67.57	62.94	
	Rajshahy.	Panchibibi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.26	69.09	56.41	
		Beaulah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.55	50.39	55.04	
		Nattore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.61	50.79	67.77	
		Jangraon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61.30	?	
	Maddah.	Lajpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	37.52	?	
		Maddah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61.18	?	
		Chanchal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	49.83	53.28	
		Gajol	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.49	44.16	50.01	
	Dinapore.	Sibganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	61.64	?	
		Mohadobpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	63.91	59.21	
		Chitramon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.02	59.31	53.44	
		Isaungpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.70	74.54	68.31	
	Rangpore.	Dinapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.45	99.90	64.41	
		Balourghat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.03	62.95	62.10	
Bhawshikunje (Ghabandia).		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.80	69.34	64.71		
Rangpore		Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.77	83.29	76.71		
Julpigore.	Kuturam	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.28	77.05	77.81		
	Isaungpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.57	163.83	86.52		
	Bagoogra (Niphawari).	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	64.01	?		
	Ulipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	64.01	?		
Cooch Behar.	Julpigore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.11	129.17	119.54		
	Atipore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	142.04	?		
	Atipore Duar	0.23	Nil	Nil	Nil	Nil	Nil	Nil	1	0.23	0.23	?	148.20	?		
	Jalacotta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	98.91	?		
Darjeeling Hill.	Debiganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.84	194.47	97.6		
	Dumtata	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.85	126.62	121.2		
	Cooch Behar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.55	123.96	129.03		
	Mickungur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.06	119.28	129.76		
Purneah.	Masabhang	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	119.28	?		
	Buxa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.60	175.85	108.89		
	Siliguri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.56	119.97	104.37		
	Darjeeling	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.55	116.71	113.26		
North Bhagulpore.	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.85	83.73	83.20		
	Kisongunge.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.24	85.70	70.87		
	Arraresh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.55	68.38	66.12		
	Purneah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.45	67.47	61.90		
Durbhunga.	Gondwara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?		
	Balarampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	66.20	?		
	Masabhang	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	83.04	?		
	Alorari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	79.63	?		
Mousserpore.	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	55.58	39		
	Masabhang	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.33	55.22	?		
	Sonpuol	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	67.15	?		
	Protabganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	67.15	?		
Chaugachan.	Tajpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	44.89	44.06		
	Durbhunga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	53.92	46.3		
	Masabhang	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	56.23	46.65		
	Madhuani	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	53.19	?		
Mousserpore.	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?		
	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?		
	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?		
	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?		
Chaugachan.	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?		
	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?		
	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?		
	Kaibong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?		

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 13th of April 1888—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1887.	Average rainfall from 15th May to date.
			Saturday, 7th April.	Sunday, 8th April.	Monday, 9th April.	Tuesday, 10th April.	Wednesday, 11th April.	Thursday, 12th April.	Friday, 13th April.	Number of rainy days.	Rainfall week.				
NORTH BEHAR—concluded.	Saran	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.06	42.85	44.9
		Sowad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.03	39.74	40.1
SOUTH BEHAR	Shahabad	Chhapra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.11	38.70	41.5
		Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.18	34.73	39.9
		Deoria ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.08	39.76	41.9
		Hatubooah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.13	36.58	41.7
		Baswaran ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.13	41.34	41.1
		Arran ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Mohania ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Gya	Aurungabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.10	29.96	44.9
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.06	43.87	43.4
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.10	36.61	41.3
		Chiknabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.14	46.77	41.2
		Arsoal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41.13	?
		Isaudnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	28.01	?
		Sherrghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36.45	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Pakri Barawan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	22.24	?
	Patna	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.07	37.17	43.1
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.03	38.44	42.3
		Botnar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.10	35.54	43.2
		Barr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.04	36.06	40.3
		Rickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40.65	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.03	34.57	?
	Monghyr	Begowaserai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.10	40.08	40.9
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.02	47.26	47.4
		Jamun ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.13	40.62	44.3
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42.63	?
		Sheikhpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38.58	?
	South Bhagal-pore	Imaulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.40	41.23	41.9
		Buak ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.21	30.06	42.3
		Kulpong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43.45	?
	South Per-gumiah	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.38	37.98	39.9
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.15	40.56	45.0
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.17	38.65	44.2
		Nya Doonka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.45	46.04	50.0
		Deokhur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.29	47.99	51.0
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.09	40.24	51.0
		Nimra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Nanraht ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36.81	?
CHUTIA NAG-PUR.	Hazaribagh	Pachumbia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.13	42.00	43.1
		(Girdi) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.14	47.58	49.0
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.05	41.27	45.1
		Semakuram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.06	40.62	45.3
		Manu: Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38.73	?
		Jhoomrah Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50.10	?
		Jhara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	7.46	?
		Chitra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61.64	?
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Kamghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
	Lohardugga	Lohardugga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	37.38	?
		Basin ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.26	38.98	54.3
		Pannuow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.14	50.71	47.0
		Sili ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Bakumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	35.30	?
		Harwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54.85	?
	Singbhoom	Chyenabasa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.08	0.23	53.11	53.6
		Chakradhar-pore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.13	?	41.40	?
		Chakradhar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0.16	?	55.94	?
		Bharayvra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41.15	?
	Manbhoom	Lurulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.26	46.53	51.2
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0.27	29.79	47.0
		Kuganath-pore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38.64	?
		Barrabhoom ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43.31	?
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Chaz ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 17th April 1888.

**SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 13TH
APRIL 1888.**

At the close of the previous week, ordinary hot weather conditions prevailed over Bengal. As is usual at this season, hot dry westerly winds were blowing in Behar, in West and Central Bengal, and had even penetrated over a large part of North Bengal. In South-West Bengal south-westerly winds were blowing, bringing up moderate amounts of moisture into the Province; while in East and South-East Bengal very moist southerly and south-easterly winds were blowing. Down the Assam Valley a steady north-easterly current was reported, which apparently penetrated along the foot of the hills as far as Julpigoree. The meteorological conditions in neighbouring districts of the Province on the 6th were very diverse. Thus at Rampore Beaulah on this day a dry south-westerly wind was reported, the saturation with moisture being only 23 per cent., at Bogra the air saturation was only 21 per cent., and at Berhampore only 18 per cent., while in the neighbouring part of South-East Bengal winds were very moist, and thus at Dacca the air saturation was 70 per cent. and at Furreedpore 65 per cent. On the 7th a sudden increase in the strength of the moist winds appears to have taken place, and humidity rose rapidly at many stations, only, however, to decrease quite as suddenly on the following day, when apparently a rapid increase took place in the strength of the dry westerly wind which was blowing over the north and centre of the Province. These remarkable changes in humidity, which point to equally remarkable and sudden shifts of wind with probably more or less corresponding changes of temperature during the period April 6th to the 9th, are best shown in the form of a small table.

Table showing the saturation of air with moisture. Complete saturation = 100.

DATES.	CENTRAL AND NORTH BENGAL.							EAST AND SOUTH-EAST BENGAL.				
	Rangunge.	Berhampore.	Rampore Beaulah.	Bogra.	Maldah.	Dinagopore.	Rungpore.	Chittagong.	Barrissal.	Noakholly.	Furreedpore.	Dacca.
April, 6th ...	9	18	23	21	31	11	16	68	72	70	65	70
" 7th ...	31	63	61	58	49	13	45	65	73	68	63	72
" 8th ...	3	17	27	27	26	10	45	74	73	73	61	75
" 9th ...	7	15	18	14	27	7	21	79	66	67	32	50

From these figures it will be clearly seen that the moisture laden current, which on the 6th was confined to the south of the Province, had advanced between the 6th and the 7th in a northerly direction, and had on the morning of the 7th penetrated as far as Central Bengal, as represented by Berhampore, and into the southern part of North Bengal, as represented by Rampore Beaulah, Bogra, Maldah and Rungpore; but that it had failed to reach as far as Dinagopore. The moisture laden current was, however, driven back during the period 10 A.M. of the 7th to the 8th, and by 10 A.M. of the 8th the dry westerly wind had almost completely re-established its former position. These fluctuations in the area occupied by these more or less opposite winds are unusually large and well-marked, and such cannot happen unless the atmosphere is in a somewhat disturbed condition. The result of such a conflict of more or less opposing winds, varying so largely as to humidity, &c., is usually to produce the local storms known as nor'westers; and as a matter of fact, during the first few days of the week, local storms were reported from several stations in the Dacca, Chittagong, Noakholly, Mymensingh and Tipperah districts of East Bengal.

In addition, however, to the usual local storms or nor'westers which thus occurred, the disturbed conditions in the Dacca district were accompanied by the formation of a small but very violent tornado or whirlwind, which passed through the town of Dacca and the neighbouring district on the evening of the 7th, and which caused much destruction of life and property throughout its course. It is very rarely that Bengal is visited by storms of this type, and on account of the suddenness of their appearance, their short duration, the small path over which they act with destructive violence, and the difficulty in obtaining reliable and accurate accounts of the phenomena preceding and attending them, no attempt has hitherto been made to work out scientifically the subject of Indian tornadoes. Two or three only have in fact been described. On the other hand, tornadoes of the most violent character are rather frequent in parts of the United States, and the scientific work which has there been done on their history shows that the atmospheric conditions which appear invariably to precede the formation of a tornado are violent contrasts of temperature and humidity immediately to the north and south of the path to be traversed by the storm. From the above description of the weather in parts of East and North Bengal at the beginning of the week, it will be seen that the conditions were precisely those which are invariably found to precede tornadoes in the United States. In addition, however, to these antecedent conditions, there must be some particular cause or set of causes which must determine the formation of a tornado, but of which nothing is at present known, for

similar, though perhaps not such violent, contrasts of temperature and humidity in different air currents in Bengal frequently happen at this season of the year; yet in most cases they are only followed by the formation of dust-storms and nor'westers, but which are sometimes very fierce, and it is only from the presence of some unknown exceptional conditions that perhaps once in five or ten years excessively fierce whirl winds, tornadoes or even water-spouts are formed, instead of the usual class of Indian hot-weather storms. Much doubt exists as to where the enormous energy displayed in tornadoes is derived from; but it is possible, as in the case of cyclones, the energy is derived from the condensation of aqueous vapour into rain, for in most tornadoes torrential rain follows after the passage of the storm.

Detailed and accurate accounts of the Dacca tornado have not yet been received; but the meteorological observer at that station estimates its width to have been only 200 yards; it pursued apparently a zigzag course for a considerable distance both over Dacca and parts of the surrounding country, but its commencement and ending have not been accurately ascertained. The general track of the storm was probably from S.W. to N.E., and it passed through the compound of the meteorological observatory. The observatory and its instruments were not damaged, as at this period the violence of the storm did not reach down to the ground, but the tops only of five large trees in the compound were cut off at about 30 feet from the ground. The time of commencement of the storm at the observatory is given by the observer to be 7-30 p.m. (Madras or local time), and its duration to have been three minutes only. The force of the wind was excessive. Further details will be given when the full history of the storm is subsequently discussed.

The remaining details of the meteorology of the week are of comparatively little interest. In connection apparently with the disturbed conditions which gave rise to the tornado, a large low pressure area was developed over North Bengal on the 8th, which still existed on the 9th, but which disappeared on the 10th. There is, however, nothing at present to show that any barometric depression was generated previous to the formation of the storm on the 7th. For the remainder of the week there have been the usual slight oscillations of pressure and temperature; but in the case of humidity at the stations considerably removed from the sea coast, the percentage of saturation has been exceptionally low almost throughout the week, except when the abnormal oscillations of humidity above referred to occurred in the central and eastern parts of the province.

Pressure.—Generally for the first two days of the week fell decidedly; from the 9th to the 11th a slight but distinct rise occurred; while on the 12th and 13th pressure again commenced to fall by small amounts. As already stated, a low pressure area existed over North Bengal for a part of the week, and at such stations as Rungpore and Julpigoree the average pressure for the week has been more than a tenth of an inch below the normal. Taking into consideration only the stations from which averages have been received for a series of years, and which therefore yield reliable averages, the mean pressure of the Province for the week has been 0.067 inch below the normal.

Temperature.—Has throughout the week been very high, and the mean temperature of the whole province has been two degrees in excess of the normal; while in such districts as Chutia Nagpur and North Bengal the excess has been nearly three degrees. Some very high maximum temperatures have again been recorded, the hottest day of the week being usually the 13th. The following are some of the highest temperatures recorded:—

At Bankoora	on the 13th	...	...	...	108.6°
„ Ranigunge	„ 13th	...	...	...	108.5°
„ Chyebassa	„ 13th	...	...	...	108.3°
„ Midnapore	„ 13th	...	...	...	107.9°
„ Burdwan	„ 13th	...	...	...	106.8°
„ Gya	„ 13th	...	...	...	106.5°
„ Dehree	„ 13th	...	...	...	106.4°
„ Nya Doomka	„ 8th	...	...	...	106.1°

At Calcutta (Alipore) the highest temperature during the week was 100.4° on the 9th.

The following table shows the temperature variations during the week at eight typical stations in the province:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 13th April 1888.

	Normal mean maxi- mum tem- perature for the week ending 13th April.	Actual mean maxi- mum tem- perature for the week ending 13th April 1888.	Variation of actual mean from the nor- mal.	Normal mean mini- mum tem- perature for the week ending 13th April.	Actual mean mini- mum tem- perature for the week ending 13th April 1888.	Variation of actual mean from the nor- mal.	Normal mean daily tempera- ture for the week ending 13th April.	Actual mean daily tempera- ture for the week ending 13th April 1888.	Variation of actual mean from the nor- mal.
Calcutta ...	94.7	98.6	+1.9	75.1	75.8	+0.7	84.9	86.2	+1.3
Dacca ...	92.9	94.3	+1.4	73.4	76.3	+2.9	83.2	85.3	+2.1
Burdwan ...	100.2	104.2	+4.0	74.9	74.0	—0.9	87.6	89.1	+1.5
Patna ...	100.8	101.4	+0.6	71.5	71.5	0	86.3	86.5	+0.2
Gya ...	102.5	104.0	+1.5	74.4	69.1	—5.3	88.5	86.0	—2.5
Purneah ...	96.8	99.0	+2.2	68.8	67.5	—1.3	82.7	83.3	+0.6
Hazribagh ...	96.6	97.8	+1.2	70.6	71.8	+1.2	83.6	84.8	+1.2
Darjeeling ...	60.2	62.1	+1.9	45.8	48.1	+2.3	52.8	55.1	+2.3

Humidity.—The following exceptionally low humidities have been recorded during the week. The numbers given represent the amount of saturation of the air with moisture, 100 equalling complete saturation :—

At Ranigunge on the 8th	humidity was ...	... 8 per cent
„ Ditto „ 9th	„ ...	... 7 „
„ Dinagepore „ 9th	„ ...	... 7 „
„ Motihari „ 3th and 9th	„ ...	... 6 „
„ Dehree „ 8th	„ ...	... 5 „
„ Ditto „ 9th and 10th	„ ...	... 7 „
„ Ditto „ 11th	„ ...	... 0 „
„ Buxar „ 8th	„ ...	... 8 „
„ Bankipore „ 8th	„ ...	... 8 „
„ Bhagulpore „ 8th	„ ...	... 6 „
„ Nya Doomka „ 8th and 9th	„ ...	... 8 „
„ Hazaribagh „ 7th	„ ...	... 8 „
„ Ditto „ 8th	„ ...	... 4 „
„ Ditto „ 9th	„ ..	... 5 „

Winds.—In addition to the facts with reference to the distribution of the winds given in the general summary, the strength of the southerly winds blowing during the week at the head of the Bay has to be noticed, and thus at Saugor Island from the 7th to the 8th 648 miles were recorded on the anemometer, and from the 12th to the 13th 600 miles. The average daily velocity at Saugor Island during the week has been no less than 535 miles, or 22 miles an hour.

Rainfall.—The only rainfall which has occurred during the week has been in East Bengal which has been brought by the local storms as previously described. The average rainfall, in East Bengal, has, however only been 0·16 inch. With this exception the whole Province has been rainless. At Dacca the rainfall on the 7th was only 0·42 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 13th of April 1888 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of Month.		Since 15th May 1887.		
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	108·4†	74·3	94·1	78·2	86·2	+1·3	Nil	0·30	—0·30	0·0	0·7	—0·7	0·12	0·46	47·01	56·75	
South-West Bengal ...	108·6	67·8	101·7	75·9	88·8	+2·4	Nil	0·42	—0·42	0·0	0·8	—0·8	0·02	0·64	49·89	55·36	
East Bengal	98·5	69·8	91·6	75·7	83·7	+2·4	0·16	0·86	—0·70	0·3	1·5	—1·2	0·27	1·22	61·56	80·63	
North Bengal	104·3	61·4	97·9	70·3	84·1	+2·8	Nil	0·35	—0·35	0·0	0·8	—0·8	Nil	0·64	75·72	72·57	
North Behar	103·3	60·4	96·6	69·8	82·9	+0·5	Nil	0·18	—0·18	0·0	0·4	—0·4	Nil	0·24	53·07	49·58	
South Behar	106·5	65·7	101·7	72·0	86·9	+1·9	Nil	0·12	—0·12	0·0	0·3	—0·3	Nil	0·16	42·85	46·03	
Onna Nagpur	101·3*	68·3*	97·9*	73·5*	85·2*	+2·9*	Nil	0·12	—0·12	0·0	0·5	—0·5	0·01	0·16	46·59	51·25	

* Chybhassa not included.
† Cuttack not included.

METEOROLOGICAL OFFICE, BENGAL ;

The 17th April 1888.

A. PEDLER,

Offg. Meteorological Reporter to the Govt. of Bengal.

**Results of the Meteorological Observations taken at the Alipore Observatory from
8th to 14th April 1888.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1888.		O		Inches	O	O	O	O	O	Inches	O	%			Inches	
April	8th	154.5	9.9	29.629	86.6	100.4	27.9	72.5	73.6	0.860	68.8	57	WNW and SW by S	130	Nil	Chiefly clear P.
"	9th	153.0	10.3	655	85.3	97.5	24.8	72.7	71.6	597	64.0	55	SW and WNW	91	"	Clear, P.
"	10th	152.8	10.2	670	85.4	98.6	24.7	73.9	75.9	771	71.4	67	SW and SSW	152	"	Clear, P.
"	11th	150.9	10.2	684	86.0	95.3	17.8	77.5	79.0	901	76.1	74	SSW and S	248	"	Chiefly clear.
"	12th	151.2	9.0	694	86.5	94.5	10.1	78.4	79.7	926	76.9	74	SSW and S	227	"	Partially cloudy.
"	13th	153.3	6.9	744	87.5	99.8	21.6	78.2	79.4	904	76.2	71	SSW and SW	200	"	Partially cloudy.
"	14th	153.1	9.3	721	86.6	97.7	19.6	78.2	80.0	937	77.3	75	SW and SSW	252	"	Partially cloudy, o.

The mean pressure of the seven days	...	...	...	Inches.
The average pressure of the corresponding period for 24 years, S. G.'s Office	...	...	...	29.685
The total number of hours of bright sunshine	...	...	...	Hours.
The maximum possible number of hours of sunshine	...	...	...	87.8
The mean temperature of the seven days	...	...	...	O
The average temperature of the corresponding period for 24 years, S. G.'s Office	...	...	...	86.3
The extreme variation of temperature	...	...	...	84.9
The maximum temperature	...	...	...	27.9
	...	...	...	100.4
The highest velocity of the wind in one hour	...	...	...	Miles.
	...	...	...	15
The highest pressure of wind on one square foot	...	...	...	lbs.
	...	...	...	Not measurable.
The mean relative humidity	...	...	...	%
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	...	...	...	68
	...	...	...	69
The total fall of rain from 8th to 14th April 1888	...	...	...	Inches.
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	Nil
The total fall from 1st January to 14th April 1888	...	...	...	0.25
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	4.89
	...	...	...	3.41

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86 formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, P dew, = fog.

ALEX. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 16th April 1888.

Results of the Thermometrical Observations taken at the Meteorological Office,
Chowringhee, from 8th to 14th April 1888.

MONTH.	Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1888.							Inches.		%	Inches.
April	8th	86.4	102.0	29.7	72.3	70.6	538	61.0	43	Nil.
"	9th	85.9	100.0	27.2	72.8	67.1	414	53.7	33	"
"	10th	86.6	100.5	25.7	74.8	71.7	714	69.2	58	"
"	11th	85.8	100.0	23.0	77.0	78.7	887	75.6	72	"
"	12th	87.1	97.2	18.6	78.6	80.3	913	77.5	73	"
"	13th	87.9	102.0	23.4	78.6	80.1	923	76.8	70	"
"	14th	86.3	101.0	21.4	78.6	81.1	993	79.0	79	"

The mean temperature of the seven days ... 86.4

The extreme variation of temperature ... 29.7

The maximum temperature ... 102.0

The mean relative humidity ... 61
Inches.

The total fall of rain from 8th to 14th April 1888 ... Nil.

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;

The 16th April 1888.

ALEX. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE following is a summary of the main facts connected with the vital statistics of the principal Municipalities in Bengal for the week ending 31st March 1888, as deduced from the annexed table—

1. That, during the week in question, births and deaths were registered in the proportions, respectively, of 20·1 and 27·8 per 1,000 of population, as opposed to 22·5 and 29·3 per 1,000, respectively, during the preceding week ending 24th March, indicating a retrogression in their registration.

2. That the following Municipalities returned the highest proportions of births and deaths:—

<i>Births.</i>			<i>Deaths.</i>		
		Ratio per mille.			Ratio per mille.
Kishnaghur	...	45·4	Serampore	...	84·4
Durbhanga	...	37·8	Comillah	...	65·5
Monghyr	...	29·8	Suburbs of Calcutta	...	57·7
			Bali	...	35·1
			Beaulah	...	34·2
			Gya	...	29·4
			Puri	...	29·4
			Narainjanj	...	29·0
			Bhagulpore	...	29·0

3. That the casualty-rates from the principal diseases specified below exhibit no noticeable variations in comparison with the death-rates from the same diseases in the preceding week:—

						Ratio per mille during the weeks ending—	
						31st March 1888.	24th March 1888.
Cholera	...	...	...	...	...	9·2	9·3
Small-pox	...	...	...	...	...	·2	·2
Fever	...	...	...	...	...	9·0	9·8
Bowel-complaints	...	...	...	...	...	2·7	2·6
Injury	...	...	...	...	...	·3	·4
Other causes	...	...	...	...	...	6·4	7·0

4. That eliminating fever and bowel-complaints which proved notably fatal, the former only in the Beaulah town, viz. at the rate of 21·0 per 1,000 of population, and the latter in the Puri Municipality, viz. at 10·5 per 1,000, and small-pox and injury which did not exhibit any local exacerbation in fatality, cholera and the maladies returned under the head of "other causes" manifested exceptional mortality in the following Municipalities:—

<i>Cholera.</i>			<i>Other causes.</i>		
		Ratio per mille.			Ratio per mille.
Serampore	...	63·8	Midnapore	...	17·0
Comillah	...	50·1	Suburbs of Calcutta	...	11·6
Suburbs of Calcutta	...	29·4	Gya	...	10·2
Howrah	...	14·3			
Hughli	...	5·4			

It will be seen from the above figures that cholera appears to have prevailed very severely in Serampore, Comillah, the Suburbs of Calcutta and Howrah.

5. That the death-rates under the heads of *Sex*, *Class* and *Age* stood as shown below:—

<i>According to Sex.</i>			<i>According to Class.</i>			<i>According to Age.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	31·1	Christians	...	13·0	Under 1 year	...	186·9
Females	...	24·0	Hindus	...	28·0	1 and under 5 years	...	46·0
Ratio of male deaths to every 100 female deaths	147		Mahomedans	...	28·1	5 " 10 "	...	14·7
						10 " 15 "	...	12·7
						15 " 20 "	...	23·0
						20 " 30 "	...	21·7
						30 " 40 "	...	19·4
						40 " 50 "	...	20·4
						50 " 60 "	...	26·8
						60 years and upwards	...	53·0

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major,
Offg. Sanitary Commissioner for Bengal.

The 16th April 1888.

[illegible]

* A special census of the Europeans in the Harpelling Municipality was recently taken, as the census of this section of the community, taken in February, 1881, was not reliable owing to the Europeans being at a minimum in that month. The number of the natives as before, as it was not necessary to re-count them. The ratios have consequently been calculated on the revised population under all heads in the above table, except "Age," the ratios under which have been recorded under the authorized form of age classification.

		13	14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100		
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90																					

K. P. GUPTA, M.B., F.R.C.S., Surgeon-Major.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of February 1888.

ORISSA CIRCLE.

TALDUNDAR CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDAR CANAL 27 MILES.
MACHGONG 4 " }

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value. Rupees.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
19	1. Grain ...	.....	247	247	5,041	247	5,041	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
.....	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
.....	4. Salt ...	.....	.....	.....	.....	.....	.....
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
198	7. Building materials ...	.....	2,654	2,654	2,970	2,597	2,860	
9	8. Miscellaneous ...	.....	99	99	335	99	335	
1	9. Fuel ...	.....	6	6	50	6	50	
86 rafts	10. Timber ...	.....	380 No.	380 No.	1,092	380 No.	1,092	
29 "	11. Bamboos ...	.....	23,400 "	23,400 "	334	23,400 "	334	
227 & 55 rafts	12. Total ...	..... {	3,006 & 23,780 No.	3,006 & 23,780 No.	{ 9,822 {	2,949 & 23,780 No.	{ 9,712	
205 & 51 rafts	13. Total of same month last year	7 {	1,189 & 28,021 No.	1,196 & 28,021 No.	{ 15,746 {	284 & 28,021 No.	{ 4,109	
		Up.	Down.	Total.	Rs. A. P.			
4. Total number of boats plying cargo No.		.....	227	227	Total tollage of month— 24 + 25 + 26 ... 1,028 8 6			
5. Total number of boats plying passenger No.		19	1.	20	Total tollage of same month last year ... 559 8 2			
5 1/2. Total number of empty boats ... No.		159	27	186				
6. Total registered tonnage, cargo ... Tons.		.....	5,251	5,251				
7. Total registered tonnage, passenger ... Tons		610	5	615	Memorandum of Tollage.			
8. Ton-mileage ...		1,830	68,358	70,188				
9. Estimated value of cargo Rs.		.....	8,396	8,396	Rs. A. P.			
10. Number of passengers ...		1,620	12	1,632	1. Balance not recovered on the 1st of the month ... *330 15 6			
11. Rafts, bamboos No.		.....	23,400	23,400	2. Tollage per month ... 1,028 8 6			
12. Do., bullahs "		.....	380	380				
13. Estimated value of rafts ...		.....	1,426	1,426				
14. Tollage on boats Rs.		178-5-3	776-15-0	955-4-3	3. Total ... 1,359 8 0			
15. Compounded tollage on boats ... Rs.		.....	.....	.....	
16. Tollage on rafts "		.....	73-4-3	73-4-3	4. Amount credited in the accounts of the month ... 1,160 5 3			
17. Total tollage on boats per ton-mile		.....	.....	2-61 pies				
18. Total tollage on rafts per 100 cubic feet		.....	.....	.....	5. Balance due at the end of the month .. 199 2 9			

and was revised return submitted by Superintending Engineer, Orissa Circle, with his No. 1709, dated

Amount and revised return submitted by Superintending Engineer, Orissa Circle, with his No. 1709, dated

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
216	1. Grain	661	1,260	1,921	1,09,540	1,921	1,09,540
15	2. Cotton	4	197	201	22,060	201	22,060
28	3. Oilseeds	78	61	139	11,940	139	11,940
.....	4. Salt	.....	.....	.....	.....	.....	.....
.....	5. Piece-goods	.....	.....	.....	.....	.....	.....
.....	6. Metal	.....	.....	.....	.....	.....	.....
97	7. Building materials	50	1,022	1,072	7,580	383	5,130
146	8. Miscellaneous	751	454	1,205	3,31,960	1,205	3,31,960
6	9. Fuel	47	5	52	140	47	130
18 rafts	10. Timber	.....	1,899 No.	1,899 No.	3,390	1,899 No.	3,390
36 "	11. Bamboos	.....	165,400 "	165,400 "	2,480	165,400 "	2,480
508 & 54 rafts.	12. Total	1,591	{ 2,999 & 167,299 No. }	{ 4,590 & 167,299 No. }	{ 4,89,090 }	{ 3,896 & 167,299 No. }	{ 4,86,630 }
428 & 88 rafts.	13. Total of same month last year	{ 1,288 & 61 No. }	{ 1,714 & 69,311 No. }	{ 3,002 & 69,372 No. }	{ 206,790 }	{ 2,677 & 69,372 No. }	{ 2,05,740 }
		Up.	Down.	Total.			Rs. A. P.
14.	Total number of boats plying cargo No.	249	259	508	Total tollage of month— 24+25+26		5,891 14 1
15.	Total number of boats plying passenger No.	56	53	109	Total tollage of same month last year		4,769 10 5
15½.	Total number of empty boats No.	235	185	420	Memorandum of Tollage.		
16.	Total registered tonnage, cargo Tons.	3,065	4,595	7,660			Rs. A. P.
17.	Total registered tonnage, passenger Tons.	1,347	1,146	2,493	1. Balance not recovered on the 1st of the month		7,665 11 0
18.	Ton-mileage	124,404	167,268	291,672			
19.	Estimated value of cargo Rs.	2,31,180	2,52,010	4,83,220			
20.	Number of passengers	3,146	2,583	5,729			
21.	Rafts, bamboos No.	.....	165,400	165,400	2. Tollage per month		5,891 14 1
22.	Do., timber "	.....	1,899	1,899			
23.	Estimated value of rafts	.....	5,870	5,870	3. Total		13,557 9 1
24.	Tollage on boats Rs.	2,545-7-7	3,030-3-7	5,575-11-2			
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount credited in the accounts of the month		5,383 2 4
26.	Tollage on rafts "	.....	316-2-11	316-2-11			
27.	Total tollage on boats per ton-mile	.....	.....	0-0-3-3	5. Balance due at the end of the month		8,224 6 5
28.	Total tollage on rafts per 100 cubic feet	.....	.....	0-3-0			

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
193	1. Grain ...	705	.....	705	51,730	705	51,730	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
4	3. Oilseeds ...	21	.....	21	1,500	21	1,500	
41	4. Salt ' ...	.....	124	124	10,500	124	10,500	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
59	7. Building materials ...	91	559	650	850	84	580	
139	8. Miscellaneous ...	384	123	507	16,240	507	16,240	
37	9. Fuel ...	294	.....	294	820	294	820	
4 rafts.	10. Timber ...	3,087 No.	...	3,087 No.	6,580	3,087 No.	6,580	
2 "	11. Bamboos ...	.....	6,500 No.	6,500 "	100	6,500 "	100	
473	12. Total No.	1,495	806	2,301	88,320	1,705	88,050	
6 rafts.		& 3,087 No.	& 6,500 No.	& 9,587 No.		& 9,587 No.		
258	13. Total of same month last year No.	581	282	863	59,250	709	59,180	
2 rafts.		& 3,440 No.	& 9,000 No.	& 12,440 No.		& 12,440 No.		
		Up.	Down.	Total.				Rs. A. P.
Total number of boats plying cargo No.		353	120	473	Total tollage of month— 24 + 25 + 26 ...			1,070 7 2
Total number of boats plying passenger No.		3	.....	3	Total tollage of same month last year ...			902 8 0
Total number of empty boats No.		94	300	394	Memorandum of Tollage.			
Total registered tonnage, cargo Tons.		2,753	1,366	4,119				
Total registered tonnage, passenger Tons		11	.....	11				
Ton-mileage ...		40,239	10,763	51,002				Rs. A. P.
Estimated value of cargo Rs.		57,960	23,680	81,640	1. Balance not recovered on the 1st of the month ...			533 0 3
Number of passengers ...		3	.....	3				
Rafts, bamboos No.		.....	6,500	6,500	2. Tollage per month ...			1,070 7 2
Do., timber "		3,087	.....	3,087				
Estimated value of rafts ...		6,580	100	6,680	3. Total ...			1,603 7 5
Tollage on boats Rs.		695-9-5	324-13-3	1,020-6-8	4. Amount credited in the accounts of the month ...			1,031 7 8
Compounded tollage on boats Rs.		.....	.....	.....	
Tollage on rafts "		43-15-0	6-1-6	50-0-6				
Total tollage on boats per ton-mile ...		.....	.....	0-0-3-8				
Total tollage on rafts per 100 cubic feet ...		.....	.....	0-8 4	5. Balance due at the end of the month ...			571 15 9

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
100	1. Grain ...	272	20½	292½	14,620	292½	14,620
1	2. Cotton ...	1	.....	1	300	1	300
19	3. Oilseeds ...	.....	80	80	8,558	80	8,558
3	4. Salt ...	.....	15	15	2,105	15	2,105
10	5. Piece-goods ...	.....	17½	17½	4,910	17½	4,910
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
56	7. Building materials ...	.....	508½	508½	2,405	5	1,430
20	8. Miscellaneous ...	.....	18½	18½	2,356	18½	2,356
.....	9. Fuel ...	.....	.....	.....	.....	.....	.....
7 rafts.	10. Timber ...	.....	322 No.	322 No.	966	322 No.	966
25 „	11. Bamboos ...	.....	10,950 „	10,950 „	328	10,950 „	328
209 & 32 rafts.	12. Total ...	273 {	660 & 11,272 No.	933 & 11,272 No.	36,548	429½ & 11,272 No.	35,573
307 & 25 rafts	13. Total of same month last year ..	413½	678	1,091½ & 9,910 No.	27,309	342 & 9,910 No.	26,764
		Up.	Down.	Total.			
14. Total number of boats plying cargo ... No.		99	110	209	Total tollage of month—24+25+26 ...		
15. Total number of boats plying passenger ... No.		.....	2	2	395 3		
15½. Total number of empty boats ... No.		93	67	160	Total tollage of same month last year ...		
16. Total registered tonnage, cargo ... Tons.		546	1,320	1,866	390 5		
17. Total registered tonnage, passenger ... Tons.		.....	4	4	Memorandum of Tollage.		
18. Ton-mileage ...		12,857	17,540	30,397	Rs. A.		
19. Estimated value of cargo Rs.		22,757	12,497	35,254	1. Balance not recovered on the 1st of the month ...		
20. Number of passengers ...		57	78	135	3 0		
21. Rafts, bamboos ... No.		.....	10,950	10,950	2. Tollage per month ...		
22. Do., Timber „		.....	322	322	395 3		
23. Estimated value of rafts ...		.....	1,294	1,294	3. Total ...		
24. Tollage on boats Rs.		130-6-3	242-6-9	372-13-0	398 8		
25. Compounded tollage on boats ... Rs.		.....	.....	.....	4. Amount credited in the accounts of the month ...		
26. Tollage on rafts „		.....	22-6-3	22-6-3	397 4		
27. Total tollage on boats per ton-mile ...		.....	.....	0-0-2-4	5. Balance due at the end of the month ...		
28. Total tollage on rafts per 100 cubic feet ...		.....	.....	0-3-2	15		

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
48	1. Grain ...	123½	2	125½	6,807	125½	6,807
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	.....	3½	3½	321	3½	321
4	4. Salt ...	9	2	11	1,276	11	1,276
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
5	7. Building materials ...	.....	46½	46½	7	.....	.....
3	8. Miscellaneous ...	.....	10	10	1,740	10	1,740
.....	9. Fuel ...	.....	.....	.....	.....	.....	.....
10 rafts	10. Timber ...	.....	86 No.	86 No.	53	86 No.	53
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....
61 & 9 rafts.	12. Total ...	132½	{ 64 & 86 No.	{ 196½ & 86 No.	{ 10,204	{ 150 & 86 No.	{ 10,197
126	13. Total of same month last year	193½	320½	514	8,825	135	8,084
		Up.	Down.	Total.			Rs. A. P.
4.	Total number of boats plying cargo No.	50	11	61	Total tollage of month—24 + 25 + 26 ...		85 14 9
5.	Total number of boats plying passenger No.	.....	.....	.....	Total tollage of same month last year ...		165 2 3
5½.	Total number of empty boats No.	13	43	56			
6.	Total registered tonnage, cargo Tons	265	128	393	Memorandum of Tollage.		
Total registered tonnage, - passenger Tons		.....	.....	.....			Rs. A. P.
Ton-mileage ...		3,843	2,476	6,316	1. Balance not recovered on the 1st of the month ...		.....
Estimated value of cargo Rs.		7,677	2,474	10,151			
Number of passengers ...		56	74	130			
Rafts, bamboos c. ft.		.....	.....	.....	2. Tollage per month ...		85 14 9
Do., timber No.		.....	86	86			
Estimated value of rafts ...		.....	53	53			
Tollage on boats Rs.		48-6-9	34-0-6	82-7-3	3. Total ...		85 14 9
Compounded tollage on boats Rs.		.....	.....	.....	4. Amount credited in the accounts of the month ...		85 14 9
Tollage on rafts "		.....	3-7-6	3-7-6			
Total tollage on boats per ton-mile ...		.....	.....	0-0-2 5			
Total tollage on rafts per 100 cubic feet ...		.....	.....	4-0-0	5. Balance due at the end of the month ...		.....

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,104	1. Grain ...	7,909	453	8,362	3,37,552	8,362	3,37,362	
.....	2. Cotton	61	92	153	15,950	153	15,950	
20	3. Oilseeds ...	.....	873	873	76,680	873	76,680	
92	4. Salt ...	.....	4	8	14,350	8	14,350	
4	5. Piece-goods ...	3	8	11	4,185	11	5,185	
3	6. Metal ...	40	17	57	125	57	125	
15	7. Building materials	817	449	1,266	2,13,971	1,266	2,13,971	
374	8. Miscellaneous ...	44	131	175	1,509	175	1,509	
19	9. Fuel ...	6,054 c. ft.	253 c. ft.	6,307 c. ft.	4,092	6,307 c. ft.	4,092	
46 rafts	10. Timber ...	1,900 „	250 „	2,150 „	183	2,150 „	183	
8 „	11. Bamboos ...							
1,631 & 54 rafts.	12. Total ...	{ 8,878 & 7,954 c. ft.	{ 2,027 & 503 c. ft.	{ 10,905 & 8,457 c. ft.	{ 6,68,397	{ 10,905 & 8,457 c. ft.	{ 6,68,397	
1,543 & 42 rafts.	13. Total of same month last year.	{ 6,700 & 9,010 c. ft.	{ 2,282 & 961 c. ft.	{ 8,982 & 9,971 c. ft.	{ 5,96,600	{ 8,693 & 9,971 c. ft.	{ 5,95,187	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	1,285	346	1,631	Total tollage of month— 24+25+26 ...			11,211 13 3
15.	Total number of boats plying passenger No.	488	566	1,054	Total tollage of same month last year ...			9,404 14 9
15½.	Total number of empty boats ... No.	569	904	1,473				
16.	Total registered tonnage, cargo Tons	17,277	4,636	21,913	Memorandum of Tollage.			
17.	Total registered tonnage, passenger ... Tons	2,599	2,559	5,158				
17½.	Total registered tonnage, empty ... Tons	2,147	3,743	5,890				Rs. A. P.
18.	Ton-mileage ...	4,99,393	2,26,806	7,26,199	1. Balance not recovered on the 1st of the month ...			3,975 8 2
19.	Estimated value of cargo Rs.	4,07,062	2,57,060	6,64,122	2. Tollage per month ...			11,211 13 3
20.	Number of passengers ...	4,655	7,173	11,828	3. Total ...			15,187 5 5
21.	Rafts, bamboos c. ft.	1,900	250	2,150				
22.	Do., timber „	6,054	253	6,307				
23.	Estimated value of rafts ...	3,618	657	4,275				
24.	Tollage on boats Rs.	7,423-5-6	3,606-2-9	11,119-8-3				
25.	Compounded tollage on boats ... Rs.	.....	.....	.....	
26.	Tollage on rafts „	83-2-9	9-2-3	92-5-0	4. Amount paid into treasury during the month ...			10,660 11 3
27.	Total tollage on boats per ton-mile Pie	.....	.....	0-0-2-9	5. Balance due at the end of the month ...			4,556 10 1
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-1-6				

HIDGELLER TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
	1. Grain ...							Canal was closed for silt excavation.
	2. Cotton ...							
	3. Oilseeds ...							
	4. Salt ...							
	5. Piece-goods ...							
	6. Metal ...							
	7. Building materials ...							
	8. Miscellaneous ...							
	9. Fuel ...							
	10. Timber ...							
	11. Bamboos ...							
	12. Total ...							
1,274 & 18 rafts.	13. Total of same month last year.	3,142 & 939 c.ft.	553 & 1,016 c.ft.	3,695 & 1,955 c.ft.	1,76,711	3,577 & 1,255 c.ft.	1,74,946	
		Up.	Down.	Total.			Rs. A. P.	
14. Total number of boats plying cargo No.					Total tollage of month— 24 + 25 + 26 ...		.....
15. Total number of boats plying passenger No.					Total tollage of same month last year ..		3,031 7 9	
16. Total registered tonnage, cargo ...					Memorandum of Tollage.			
17. Total registered tonnage, passenger ...								
18. Ton-mileage ...					Rs. A. P.			
19. Estimated value of cargo ...					1. Balance not recovered on the 1st of the month ... 20 6 3			
20. Number of passengers ...					2. Tollage per month			
21. Rafts, bamboos c. ft.					3. Total ... 20 6 3			
22. Do., bullahs „					4. Amount paid into treasury during the month .. 20 6 3			
23. Estimated value of rafts ...					5. Balance due at the end of the month			
24. Tollage on boats Rs.								
25. Compounded tollage on boats ... Rs.								
26. Tollage on rafts „								
27. Total tollage on boats per ton-mile ...								
28. Total tollage on rafts per 100 cubic feet ...								

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity--Tons.			Value. Rupees.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
1	1. Grain ...	7	2	9	535	9	535	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
2	3. Oilseeds ...	14	.....	14	1,433	14	1,433	
5	4. Salt ...	65	2	67	5,706	67	5,706	
32	5. Piece-goods ...	187	23	210	27,785	209	27,560	
.....	6. Metal ...	6	3	9	1,714	9	1,714	
16	7. Building materials ...	.....	190	190	1,133	177	1,115	
47	8. Miscellaneous ...	133	251	384	68,794	309	65,809	
1	9. Fuel { boats	1	.....	1	5	.....	.....
	rafts	.....	14	14	340	14	340	
3	10. Timber { boats	11	.....	11	350	10	250	
	rafts	.....	957	957	4,195	957	4,195	
6	11. Bamboos { boats	50	.....	50	1,495	50	1,495	
	rafts	66	1,386	1,452	23,635	1,452	23,635	
113	12. Total ...	510	2,828	3,368	1,37,120	3,277	1,33,787	
146	13. Total of same month last year	327	1,910	2,237	1,28,309	1,810	1,27,026	
		Up.	Down.	Total.			Rs. A.	
14.	Total number of boats plying cargo No.	58	55	113	Total tollage of month— 24 + 25 + 26 ...		2,221 9	
15.	Total number of boats plying passenger No.	4	5	9				
15½.	Total number of empty boats No.	56	19	75	Total tollage of same month last year ...		1,596 1	
16.	Total registered tonnage, cargo Tons	813	767	1,580				
17.	Total registered tonnage, passenger Tons	108	112	220				
17½.	Total registered tonnage, empty boats Tons	235	84	319	Memorandum of Tollage.			
18.	Ton-mileage ...	48,973	2,03,609	2,52,582			Rs. A.	
19.	Estimated value of cargo ...	38,761	70,189	1,08,950	1. Balance not recovered on the 1st of the month ...		819 14	
20.	Number of passengers No.	305½	250½	556	2. Tollage per month ...		2,221 9	
21.	Rafts, bamboos c. ft.	9,850	2,07,897	2,17,747				
22.	Do., bullahs "	.....	72,839	72,839				
23.	Estimated value of rafts Rs.	1,105	27,065	28,170	3. Total ...		3,041 7	
24.	Tollage on boats "	381-8-6	475-15-9	857-8-3				
25.	Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0				
26.	Tollage on rafts "	3-5-9	1,210-11-0	1,214-0-9	4. Amount credited in the accounts of the month ...		2,632 11	
27.	Total tollage on boats per ton-mile ...	.....	.....	0-0-0 76				
28.	Total tollage on rafts per 100 cubic feet ...	.....	.....	0-6-8	5. Balance due at the end of the month ...		408 12	

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
7	1. Grain ...	94	4	98	5,485	98	5,485	
.....	2. Cotton ...	1	.....	1	894	1	894	
5	3. Oilseeds ...	.....	27	27	2,850	27	2,850	
15	4. Salt ...	218	.....	218	16,230	218	16,230	
5	5. Piece-goods ...	78	1	79	48,309	79	48,309	
9	6. Metal ...	72	3	75	10,710	5	585	
5	7. Building materials ...	7	29	36	126	15	56	
70	8. Miscellaneous ...	63	356	419	13,773	192	13,482	
17	9. Fuel ...	202	18	220	1,314	61	857	
2	10. Timber ...	.....	7	7	288	7	288	
Rafts {	11. Firewood ...	.....	231	231	725	231	725	
	Bullahs ...	.....	656	656	3,114	656	3,114	
	Bamboos ...	.....	389	389	4,070	389	4,070	
	12. Total ...	735	1,721	2,456	1,07,888	1,979	96,945	
146	13. Total of same month last year	535	1,414	1,949	1,23,171	1,711	1,21,150	

14. Total number of boats plying cargo	No.	64	71	135	Total tollage of month— 24 + 25 + 26	...	Rs. A. P. 1,108 8 0
15. Total number of boats plying passenger	No.	2	1	3	Total tollage of same month last year	...	1,156 2 3
15½. Total number of empty boats	...	24	14	38	Memorandum of Tollage.		
16. Total registered tonnage, cargo	Tons	984	706	1,690			
17. Total registered tonnage, passenger	Tons	66	59	125			
17½. Total registered tonnage, empty	Tons.	62	51	113			
18. Ton-mileage	...	53,128	30,232	83,360	1. Balance not recovered on the 1st of the month ...		
19. Estimated value of cargo	Rs.	85,195	14,784	99,979	196 11 3		
20. Number of passengers	...	834	814	1,648	2. Tollage per month ...		
21. Rafts, bamboos	c. ft.	.....	58,470	58,470	1,108 8 0		
22. Do., bullahs	"	.....	49,244	49,244			
22½. Do., firewood	"	.....	17,333	17,333			
23. Estimated value of rafts	Rs.	.....	7,909	7,909	3. Total ...		
24. Tollage on boats	"	284-13-6	191-3-0	476-0-6	1,305 3 3		
25. Compounded tollage on boats	Rs.	164-0-0	164-0-0	328-0-0	4. Amount credited in the accounts of the month ...		
26. Tollage on rafts	"	.....	304-7-6	304-7-6	1,088 8 3		
27. Total tollage on boats per ton-mile	...	.....	.....	1-85 pice			
28. Total tollage on rafts per 100 cubic feet	...	.....	.....	0-3-10	5. Balance due at the end of the month ...		
					216 11 0		